

2 Allen, P.H

2893-5201

1942-1947

Allen, Paul H.

BOOK 2.

Field notes 1942 - 1947

2893- 2979 Panama
2980-3016 Colombia
3017-5201 Panama.

X 2893 - *Maxillaria* - Sepals & Petals pink, edges
yellow & with yellowish Rio - lip yellow - white
lips heavily spotted Rose pink. ①

X 2894 - *Hortia Burtii* ①

El Valle - North - 800 meters.

12/23/41

2895. *Oncidium pavallii* - yellow - S. & P.
Rich Chestnut Brown - with very narrow
yellow edge ($\frac{1}{2}$ mm.) margins undulant,
& crimped -
Shiny yellow Translucent on Sep.
frontal lobe of lip bright yellow -
with 3 Mustard Brown spots near base
of calyx - another esp. yellow -
Flowers 4 - 4.5 cm in diameter. ①

P. Smith
Vicinity of Palo Seco - C. 2 - O.M. 1-11-42

X 2896 - *Bauhinia* - twin liana - Common in trees
along rocky benches - mature comes over
woody - curiously undulant - Armed with spines.
Flowers greenish white - fragrant - ⑥

Region north of El Valle de Antón - About 1000 m.
(Finca Muñoz) 1/13/42

2897- *CAVendisia Akeni* - epiphytic shrub - $\frac{1}{2}$ m. or
less - BRacts SPRING pink - Flowers yellow. (2)

X 2898- Epiphytic Bromeliad - Roots red - BRacts red -
Flowers white - Foliage green except for basal
 $\frac{1}{4}$ which is brown. (3)

X 2899- Epiphytic Fern - Myrmecophytic species -
Associated with minute black ants & large
brown scale insects - (6)

X 2900 - Thelophyllum - giant rock epiphytes -
INFLORESCENCES erect - covered with a silvery
grayomentum - leaves green - flowers rose
pink - buds lavender - (2)

X 2901- Epidendrum - epiphytic - flowers green - (2)

X 2902- Orchid - epiphytic - fl. yellow - (3)

X 2903- Lockhartia - epiphytic plants much like
L. pallida in superficial appearance - exception
that the leaves usually exceed 8" in length
Flowers rich yellow - about $\frac{1}{4}$ " in diameter. (1)

X 2904- Orchid - epiphytic - (2)

X 2905- Epiphytic Bromeliad - Axillary BRacts &
Pawneado red - imbricating BRacts of inflorescences
silvery gray - flowers lavender - (2)

Foliage green -

X2906 - *Bewonia* - Flowers white - stems yellow (2)
yellow - common on rocks & dryish stumps.

2907 - *Melastoma* - Flowers lavender - common (6) (C)
on banks in stream beds -

X2908 - *Acanthus* - SHrub - 2 - 2½ m. Flowers
scarlet - common - (C)

2909 - *Heliconia* - Inflorescences terminal - erect.
Plants about 3m tall - bracts greenish, or scarlet
tinted with purple - flowers bright pink -
under surfaces of leaves often tinted purple (A)

X2910 - TREES - 20 - 25m - Flowers rose pink -
flowers littering trail everywhere - common - (C)

SOUTH RIM OF VALLEY - ABOUT 650m. 1/13/42

X2911 - *Cassia*? SMALL TREES 3 - 6m along roadside
on descent into valley proper - Flowers
yellow - stems very hairy - hairs
long & silvery - (12)

X 2912 - TREES - 6 m. FRUITS PINK - conspicuous.
Haliocarpus - (also in FLOOR & ON NORTH SIDE) ③

2913 - Peperomia - growing on exposed rocks with
Furcraea etc - STEMS pink - leaves very thick ④

X 2914 - Oncidium Chiriquense - growing in "NAME"
TREES - Flowers yellow (also on north side) ②

X 2915 - Bulbophyllum poorly packed - common - ②

X 2916 - FERN - TERRESTRIAL - FRONDS PRESSED VIRTUALLY
AGAINST TRAIL SIDE BANKS - common - ⑤

X 2917 - CASSIA - SCANDENT SHrub - 2' - 3' m.
Flowers below yellow. ⑥

2923

23- PSEUDO BULBS SUB-ORBITAL - 3.5-4.00 cm.

long and 2.5-3.00 cm wide - much

Compressed - wrinkled - monophyllous

Heavily spotted with black - base of

pseudo bulb sheathed in 3 foliolous

BRACCS - From the axils of one or two

The flowering scape appears -

Flowers very variable in size - measuring

from 2.5 X 2.00 cm. in the largest variety

seen (preserved in alcohol) to 1.75 X 1.00 in

the smallest flowered variety. colors as

previously noted.

Panama

Region North of El Valle - (Flores Júnior)

800 - 1000 m - February 2 - 1942

X 2918 - MAXILLARIA - epiphytic - dwarf plants - 8-9" tall - cream - lip cream - frontal lobe red-brown - ①

X 2919 - Columnar - epiphytic - tips & margins of leaves blood red - stems red - flowers red - ②

X 2920 - MAXILLARIA - pseudobulbs clustered - mature leaves 6.5 - 7 cm wide - 25 cm long - 8 st� & petals yellow - lip yellow - with frontal lobe having a white margin & lateral lobes red-brown - ①

2921 - MAXILLARIA - DWARF TUFTED Plants - sepals & petals pure white - labellum rose pink - with pale yellow frontal lobe - ①

X 2922 - BRASSIA ? - Plants Resembling Hontleya - sepals & petals rich CHESTNUT brown - labellum pale yellow - ①

X 2923 - Oncidium - leaves erect - pseudobulbs rounded - black - flower scapes molt greenish - normally about 14" long - 8 st� - petals & lip yellow yellow - with CHESTNUT brown blotches at base - blotch at base of labellum in form of a round U inclosing basal ^{yellow} callus - ①
← (continues opposite page)

Circa Almeida

X 2924 - Epiphytic - STRANDER TREE - 10-12 M. OUTER
SURFACES OF PETALS OLD ROSE - INNER SURFACES &
OUTER MARGINS CREAMY WHITE - BARK OF
TRUNKS & BRANCHES SPINY - (3)

2925 - BEGONIA - Epiphytic - fls. very pale pink - (4)

X 2926 - OKEHED - Epiphytic - fls. pale green - (1)

X 2927 - Acanthace - SHrub - 1' Lm - fls. bright yellow (2)

2928 - MONOPYLE - corolla lobes blue - OUTER corolla
white - inner corolla pale yellow - UNDER surfaces
OF LEAVES purple - (1)

2929 - BROMELIAD - epiphytic - SCAPES BRADS SCARLET -
Flowers white - Foliage green - Tissue leaves - (1)

CYCNOCHES

RIO TABASARA - Prov. OF CHIRIQUI - 50 M - Elevation -
(Plant flowers in BALBOA - collected at above locality) ^{1/3/42}

X 2930 - 8 sepals & petals GREENISH yellow - Lip pure
white - with DARK GREEN basal patches -
oblique GREENISH yellow - with bottom yellow
ANTHER CAP. Flowers DELICATELY FRAGRANT
IN THE MORNING - (1)

Region North of El Valle de Anton - Prov. of
Cocle. elevation about 1000m - June, 1941

X2931 - SAN HOSEA - Flowered in the collection of Mr.
A. H. B. Fairchild, San Francisco de la Cabaña, and
collected by him at the above locality. Flowers
creamy white, without characteristic "eyes"
or spots. Larger than either *S. wardii* or
S. bucephala. - (1)

X2932 - MAXILLARIA - (Kerner Photo) Flowers sessile
in leaf Axile - Sepals & petals yellow. Lip
reddish brown. column reddish brown - FRAGMENT
Collected by Mr. A. H. B. Fairchild & flowered in
his collection Feb. 12 - 1942 -

vicinity of Proaza - Rep. de Panama -
25m - 2-17-42

X2933 - ONCIDIUM - STIPITATUM - Sepals & petals
yellow - pretty spattered & barred chestnut
brown - FRONTAL - much expanded base
of labellum. Pollinia yellow - darkish
slender lobes of same color - chestnut
brown crested ^{a base of lip} called below column. (3)
(flowers in picule showing variation in size)

Retiro South of El Valle de Anton

600 m - 2-20-42

2934- SOBRALIA williamsii - STRIKE CARE- ①

Retiro North of El Valle - About 1000m

2-20-42 (Ficus minor)

X 2935- Maxillaria - epiphytic - Flowers bright yellow ①

2936- Epiphytic - S. & P. brown. Lip greenish toward ②

X 2937- Oncidium - S. & P. Brown - Tepals yellow.

Lip brown, with brownish & darkish lobes yellow.

CREST AT BASE OF LIP woody - white - ALCINA
yellow. ①

X 2938- SEE # 2923 FOR DESCRIPTION - ②

X 2939- Oncidium Ciliophorum - Common ②

2940- Entypa Alensis - Single - OR multiple

Stems & slender palms - THE TRUNKS - Gray -

Opposite, River. diameter 5-6" in diameter.

Flowers Private, with a low - well developed

CROWNSHAFT. BASE OF TRUNK supported
By A MOUND OF BOTTLES Roots - large

Red - about a foot in height, broadly
DISTRIBUTED throughout the valley area

above 900 meters -

②

2942 - (continued)

less concrete - or divided from wind or
dammaro - IN Flood escarpas PAVON - MIRA -
Foliaceous - 2-4 in number - ①

Region North of El Valle - 800 m -
4-4-42

X 2943 - TONKOKA - Flowers straw yellow -
spotted Red - Brown - Shiny FRESH - ①

Region North of El Valle - about 800 m
5-10-42

2944 - columnea - Flowers Red - Stems & tips of leaves
straw Blood Red - epiphytic - ②

X 2945 - bromelias - epiphytic - BRACTS OF EDGE SCARLET
Flowers yellow - ②

Hills south of El Valle - About 700 m -
5-10-42

X 2946 - episcia - TREE - 20 m - Fleshy calyx
BRIGHT RED - CORolla TUBES BRIGHT WAXY
yellow - very handsome & large flower - (5 Holes) ③

Hills north of el Valle - about 800 m -
5-10-42.

2947 - Slender palm - Beccarian? - 2 m - Growing
in heavy shade - (3)

2948 - Small tree - 3 m - Fruits conspicuously orange
scarlet in December - (1)

2949 - Chamaedorea? - Slender palm - 3 m - (1)

2950 - Aroid - epiphytic - Spathe broad -
fleshy - deep pink - conspicuous - (1)

2951 - Berries - leaves covered with short
soft golden hairs - Spathe woolly
rather than spiny - 5-8 cm -
2½ - 3 m tall - in deep shade - (1)

2952 - Strelis? - Epiphytic - flowers purplish
black - (2)

2953 - Apocynaceae - shrub or small tree - 3 m -
flowers yellow - (3)

2954 - Aroid - epiphytic - (2)

Hills South of el Valle - about 900 m -
5-10-42

2955 - Aniba - trees - 15-20 m - Slender -
brown above reddish - flowers
lavender -

2956 - MORACEES - Flowers greenish brown - (Keeler
Moo) from Fairchild collection ^{1 flower} in Park ①

Region North of El Valle 800 m
7/9/42

2957 - Acanthac - Shrub or woody tree. 1 1/2 m
Flowers bright yellow. ②

Vicinity of Vacamore Point, Loma Province,
C.N. - 9-7-42

2958 - Agave - Common in rocky places. Flowers
spikes 3 m tall - off the canyon of Dorers
OT - small flwr. Flowers streaked tan - wine
dirty yellow Anthers. ①

2959 - Heliconia - usually known as "corisparia"
Plants very tall - 2 1/2 - 3 1/2 m. Foliage brown
like - inflorescences pendant - 3-4 in. long
set at angle to the vertical rock. Receptacles
pink red - corolla's white.
flowers yellow - followed by blue flwr.

2960 - *Habenaria heterophylla* - Plant adansonii
2 m tall - in flower areas east - Bushy
Sgt at angles so one another on the
UNDULANT ROCKS - Bracts slender -
Bent skyward - whorled - red - with
+ yellowish area near the point of
attachment to the bracts. Flowers
brownish yellow with clear markings
to the petals. ①

2961 - *Habenaria* - "SYRACUSIA" SURVIVING
2 m - but as much as 3 & as little
as 1 1/4 under some circumstances.
In flower areas east, the bracts slender -
clearly imbricated. Bracts ^{slender} yellow, with
a brownish tinge in the m, late ones.
Flowers straw yellow, tipped dark
green - ⑤

VICINITY OF Beddoe, NEAR Rock CREEK.
20 M - 9-9-42

2962 - Like no other Herb common to Rocky Exposed
Hill top - clumps with strap like leaves
1/4 m tall - laxly branching. Flowers
weak movement. Fls. white, small - with
yellow content stems. ⑤

Region NORTH OF EL VALLE DE ANCON - 9/10/42
ABOUT 700-800 M. COLLECTED BY MR. EDMUND
OHSEN

2963- BRASSIA ALBONII - S. & P. TAN - lip pale yellow
Flowers delicate Faint FRAGRANT. ①

2964- DICKAIA sp. plants about 10" tall - Sepals
& petals pale GREEN - lip Royal purple - ①

2965- Phragmellia - epiphytic. ①

Same Region as above - flowers in
Bunches about 7/10/42 600 m - Floor.

2966 - epiphytic - Common on trees near WESSEL'S
place - TUFTED - plants with small thick
leaves - pseudobulbs about 1" high, plants
looking like dwarf Cattleyas. Flowers
proceed from base of pseudobulbs
as in E. STANTORIANUS. Flowers ^{fleshy} pale
yellowish GREEN. ①

DA VENTA, COCLE' PROVINCIA Sea level 9/10/42

2967 - common weedy HERB - Fls. yellow, ^{with dark brown} CONSPICUOUS -
(also south of el valle) ④

VICINITY OF CASA LAROA - ABOUT 65 M. 10/18/42

2968 - *Bauhinia*, giant woody liana, climbing in
tops of tall trees - woody stand about
the diameter of a man's arm, not not flattened,
perforated nor undulant as we some
species. woody tendrils present. Flowers
pure white. ④

2969 - *Schultzia*, growing in wet savanna - flowered
bright pink, very conspicuous - $\frac{3}{4}$ m tall. ③

2970 - *Schultzia*, growing with the former species -
flowered much smaller - dull, dirty pink. ①

2971 - *Polygonia* - common on dry savanna - fls.
pale lavender - ④

2972 - *Polygonia* - DWARF species, having broad leaves,
fls. BRILLIANT PINK. ③

Hills NORTH OF EL VALLE - 3-14-43 - About
1000 m -

2973- STELWIA, "PAZAMIA" tree 90 FT.
TALL - UNBUTTERED, NATURALLY A SISTER
CARYA - LEAVES STRONGLY REVERSED, ENRICHED.

2974- LUSITANIA - TALL - SLender - SPARSELY BRANCHED TREE -
15 M - CONSPICUOUS FOR THE LONG - LEAVES CHARACTERS
NEAR THE ENDS OF THE BRANCHES - INFLORESCENCES
SWEET, TERRINATE, PENDULANT; OF COLOR YELLOW
FRAGRANT flowers - (Lima del Tiore) ^{MEMBRANOSO} ①

2975- LOCUMA sp. TREE - 15 m - "MANI AILLO"
FRUIT SPHERICAL - LIGHT GREEN - THIS IS REPORTEDLY
REPORTED AS NOT EATEN -

2976- CEIBA ATLANTICA, STRAWBERRY TREE, epiphytic
HABIT OF TOPOBAL PROBABLY LEAF SPECIMENS - ②

2977- Chocoloba - TREE - 25-30 m - "UVERO" Inflorescences
PANDANT - BUDS YOUNG RED - FLOWERS WHITE
WITHIN, FRAGRANT - NEW LEAVES ^{conspicuous} -
RED - BROWN -

2978- Violaceae, CREEPING, STRAWBERRY TREE
Known the fruit of Polypodium acre -
FLS - conspicuously pale - pink - flower
BLW - (green)

2919 *Calocarpum viside* - tree - 25' m. Fruits
green - seed exceptionally large - with a
conspicuously large hydium.

Paul H Allen

Missouri Botanical Garden

Collections from

Colombia, S.A.

July - 1943 to NOVEMBER - 1945

No. 2980 to 3407-A

PLANTS OF PANAMA -

MARCH - 1946 to OCTOBER - 1947

No. 3408 to 5201

Species X in last Hand written have been overruled.

Quibrada Gicá Vicinity of Bogota - Colombia
Elevation (about 11,000 ft.) July 11, 1943 with F.M. Roseberg

2980 ✓ Bromiliad - epiphytic on boulders. Pasano - Bracts scarlet
flowers white. ①

2981 ✓ Loranthac - small tree - 3 meters - not parasitic - flowers white ②

X 2982 Espeletia corymbosa - plants not trunked - dwarf
flowers yellow ③

2983 ✓ Pae - 10 meters - flowers white ①

X 2984 Gentian - dwarf herb - flowers pale lavender - striped
deeper lavender ①

X 2985 Melastomac - dwarf herb - flowers yellow - scapes from
a bright green basal rosette - like a dwarf primula ②

X 2986 Lycopodium - steep banks ②

X 2987 Psichromanes - pendant - brownish woolly fronds -
boulders on Pasano ②

✓ 2988 Melastomac - shrub - 2 meters - flowers deep rose ③

X 2989 Ericaceae - dwarf shrub - 25 cm. - flowers rose red -
Pasano ②

X 2990 Geranium - flowers deep lavender - Pasano ①

2991 Viburnum - tree - 10 m. - flowers white ②

2992 Legume - bush - seeds black - standards white - fragrant ①

2993 Eleanthus - clumps on boulders in Pasano -
flowers rose purple. ①

X 2994 Ericaceae - shrub - 2 m. - flowers rose red ④

X 2995 Ericaceae - same as above but a tree - 15 m. - flowers larger. ②

2996 Orchid - flowers pale lavender. ③

X 2997 Composite - flowers white. ①

X 2998 Composite - spring shrub - 3 m. - flowers pale lavender ②

2999 Espeletia - flowers yellow - plants with trunks 75 cm.
tall - leaves silvery - Pasano ①

3000 Melastomac - creeping matted herb - flowers white -
leaves succulent - Pasano ②

3001 Eris caudex - dwarf herb - flowers white - Pasano ①

X 3002 Composite - flowers yellow - Pasano ②

3003 Pleurosthalus - flowers pale yellow ①

3004 ✓ *Lobelia* - dwarf herb - flowers deep violet - Paramo ②
 X 3005 ✓ *Lobelia* - herb - flowers violet - Paramo ③
 X 3006 ✓ *Hypericum* - flowers yellow Paramo ①
 X 3007 ✓ *Gentianac* - flowers pale greenish white Paramo ①
 3008 ✓ *Spiranthes?* - flowers greenish white Paramo ②
 3009 ✓ *Melastomac* - woody herb - flowers black purple - Paramo ②
 X 3010 Herb - leaves red brown - flowers white - Paramo ②
 3011 ✓ Orchid - terrestrial - flowers bright pink Paramo ②
 X 3012 ✓ *Didaceae* - flowers pale yellow - Paramo ③
 X 3013 ✓ *Erucaea* - shrub - 1/2 m - flowers pale pink - Paramo ②
 3014 ✓ *Epidendrum* - flowers pale greenish tan - Paramo ②
 3015 ✓ Orchid - flowers yellow - Paramo ①
 3016 ✓ *Lodium* - Liana - flowers yellow - fragrant - Paramo ①

Pio Macu (Macu - Parana) 8/11/43

3017 ✓ Shrub or small tree - 6 m. - flowers dull red - old clearings on sand. ⑤ ⑥
 3018 ✓ Tree - 10 to 12 m. - flowers dirty white ② ⑥
 3019 ✓ Tree - 12 m. - fruits brown ② ⑥
 3020 Tree - 10 m. ① ⑥
 3021 *Distichous Bromeliad?* ^{Bromeliad?} - very common - scape bracts orange scarlet ⑥
 3022 ✓ ~~PTMA PIGHACCA~~ ^{IN OLD CLEARING AT HEAD OF TRAIL TO VASU} - vine - flowers yellow ③
 X 3023 Perrestrial orchid - branched - 2 m. - flowers lavender - lip fringed with coated hairs ②
 3024 ✓ Herb - flowers white - common ①
 3025 Permit nest epiphyte - flowers white ①
 3026 Sedge ①
 3027 Pinchomanes ①
 3028 ✓ Bromeliad - terrestrial - bracts bright red ②
 3029 Scitaminac - bracts red ①
 3030 Orchid - epiphytic - flowers tan ①
 3031 Epidendrum - terrestrial - flowers green ①
 3032 ✓ Lycopodium - common one - tan - tab-wa ②
 3033 ✓ Chusia - tree - 15 m - flowers white - stamens yellow - fragrant. ④

X 3034 ✓ Pachomanes - old clearings ②
 3035 Peper ally - " " ①
 3036 Shrub - 1 to 3 m. - flowers greenish white ②
 3037 ✓ Shrub - 1 1/2 m. - bracts red - flowers green ②
 3038 ✓ Shrub - 2 m. - hairs on inflorescence scarlet ②
 3039 Common bush - flowers yellow ①
 X 3040 ✓ Pachomanes ②
 X 3041 " ③
 3042 Melastomac - bush ①
 X 3043 ✓ Scandent shrub - 3 m. - flowers deep blue ②
 X 3044 ✓ Bush - very common ⑥
 X 3045 ✓ Peper ally - Found along in "CATINNA" Woods - ④
 3046 Gesneriac - shrub - 1 1/2 m. - flowers red ①
 3047 Sobralia - flowers white - yellow lip - fragrant ②
 3048 Blue orchid - see diary ④
 3049 ✓ Plat sogudi - see diary (stems) ④
 3050 ✓ Bujawakpui - see diary

Baccaurea - Rio Poco - 9/6/43

3051 Pice - 6 m. - flowers yellow - caulinodous ②
 3052 ✓ Shrub - 2 m. - flowers greenish white ①
 3053 ✓ Pice - 10 m. ②
 3054 ✓ Byrsinima - tree - 6 m. - "mim-gaij" tocano ②
 3055 ✓ Shrub - flowers white - 2 m.
 3056 Bromeliad - epiphytic - basal scape bracts
scarlet - flowers yellow ①
 3057 ✓ Bloody lidna - 10 m. - ericaceae - calyces scarlet ①
 X 3058 ✓ Small tree - 3 m. in clear spot in forest ⑤
 3059 Bromeliad - epiphytic - scape bracts pink ①

Pesista - Rio Papuri - 8/15/43

3060 ✓ Bush - flowers yellow ③
 X 3061 ✓ Bujawak pui or arasa siringa - tree -
35 m. - see diary ⑥
 3062 ✓ Mahawak pui - see diary ④
 3063 ✓ Pak pui - see diary ⑤

- 3064 ✓ Sak-a-di - see diary - sterile (3)
- 3065 OKU-KI-RANA - tree - 25m. - sterile (3)
- 3066 ✓ Di-juwj-wak-soquj - tree - 20m. - sterile (3)
- () 3067 ✓ Vine - apocynac - flowers deep yellow (4)
- X 3067-A - Herb - Common to Sanz Chirimis - Flg. white

Piaçuara - 8/18/43

- 3068 "Mac-so-me-me" see diary (4)

Rio Cui-cu-yu - 8/23/43

- X 3069 ✓ Shrub - or woody liana - 3m. - flowers dull red (2)
- 3070 ✓ Apocynac - vine - flowers white (1)
- 3071 ✓ Pree - 12m. - flowers pale yellow (2)
- 3072 Shrub - 4m. - flowers pale yellow (2)
- 3073 Shrub - 1½m. - flowers pink (2)
- 3074 Vine - apocynac - flowers pink (1)
- 3075 Pree - 12m. - flowers pale yellow (2)
- 3076 Herb - flowers white - gesneriac

NOT collected, BUT common, not some species of Mapania, Having large lobose hairs, very frequent in shallow water. OR Hedraea - SEE Bot. Mus. Leaflet

Macu-Parana - 8/11/43

- X 3077 ✓ Liana - flowers dull orange (3)
- 3078 ✓ Melastomac - liana - flowers white (2)
- 3079 ✓ Herb - Growing on boulders with Podostemons (3)
- 3080 Oncidium Iridifolium (1)
- 3081 Herb - 1½m. - flowers cream - basal inflorescence (1)
- 3082 ✓ Small tree - 10m. - flowers lavender (2)
- X 3083 Eriocachion? (2)
- X 3084 ✓ Shrub or small tree - 3m. - flowers yellow (3)
- 3085 Epidendrum - terrestrial - flowers red - 10m. (1)
- 3086 Liana - flowers yellow

Mello Pranco - Brazil - 8/31/43

- 3087 ✓ Shrub - 2m. - flowers red (2)
- X 3088 ✓ Vine - flowers red (2)
- 3089 ✓ Pree - 20m. - flowers white (2)
- 3090 - Pree - 6m. - flowers white - apocynac (2)
- X 3091 ✓ Pree - 12m. - flowers white (2)

3092 Herb to 10m. - flowers white ①
 X 3093 Tree - 12m. - flowers lavender ②
 3094 Woody vine - flowers white ①
 3095 Tree - 18m. - flowers white ②

Bacanivara - 9/6/43

3096 Small tree - 4m. - apocynac - flowers pale cream,
tips fringed. ①
 3097 Saprophyte - Piuridaceae ①
 3098 Apocynac - vine - flowers deep yellow - fragrant ③
 3099 Brunnia - scandent shrub - 3m. ①
 X 3100 Shrub - 1½ m. - flowers pale lavender ②
 3101 Asclepid - flowers pink + white ①
 3102 Orchid - terrestrial ①

Manfost - 8/28/43

3103 Epiphytic - strangler shrub "lij-ex-we" toc. ②
 3104 Sapotaceae - caimito - "ca-a-me" toc. - slender
tree - 12m. ⑤
 X 3105 Pheobroma ^{possibly THEOBROMA GRANDIFLORUM} - Officinal Nat. Hist. Mus. exco
tree - 6m. - sepals fleshy - petals maroon. ⑥
 3106 Annona sp. - fruit with orange pulp resembling
A. Muricata in flower - "cat-ariana - pica" toc. ①
 3107 Spiny tuberculate annona - tree - 10m. ①
 3108 "Guai-tu-to" (gesal) "Pi-ca" toc. ①
 X 3108 Tree - 12m. - flowers pale lavender ③
 3109 Ma-ja-wak-puij - see diary - Manfost var. ④
 3110 Strangler tree - 15m. - flowers white with maroon
centers ⑥
 X 3111 Blaw-gum cotton - tree - 15m.
 3112 Tree - 15m. - Barbacoa ^{Flo. like Rose pink.}
_{fruits = fruits spiny} ⑥
 3112-A - Tree - 20m - fl. white -
 Bacanivara - Caño Piba - 9/6/43
 3113 Lepidocaryum - see diary
 3114 Coatscasa - see diary

Headwaters of Cuduyari 12/6/43

3115 Orchid - terrestrial - flowers yellow
Mapoboda' 12/10/43

3116 ~~Bromeliaceae~~ - pitcairnie? - fruits red - terrestrial ②

3117 Shrub or small tree - 5 m. - fruits reddish - clusioid ②

3118 Aroid - epiphytic - clumps on stones ①

3119 ~~Bromeliaceae~~ - herb - flowers violet tipped yellow ②

3120 Lobeliaceae? - flowers blue ②

X 3121 ~~Gentianaceae~~ - flowers pale green ②

3122 Utricularia - flowers pale yellow ②

3123 Juncaceae - luzula? - flowers yellow ①

3124 ~~Cassia~~ - low shrub - 3/4 m. - flowers yellow ②

X 3125 ~~Dasseraceae~~ - dasera - leaves blood red ②

3126 Dicostegia (Bromeliaceae) - flowers cream white ②

3127 Utricularia - flowers yellow ②

3128 Utricularia? - flowers pale lavender ①

3129 Polygalaceae - flowers lavender ①

3130 Eugenia - small tree - 2 m. - flowers white ②

3131 Herb - flowers yellow ②

3132 Melastomac - small shrub 4 m. flowers purple ②

3133 Utricularia - flowers blue - terrestrial ②

3134 Utricularia - flowers yellow ②

3135 ~~Burmaniacae~~ - Dicostegia? - flowers blue ②

3136 Lycopodium - ②

3137 Herb - flowers deep blue ①

3138 Sedum? - flowers greenish yellow ①

3139 ~~Shrub~~ - 2 m. ②

X 3140 ~~Byssonima~~ - tree - 30 m. - flowers yellow ②

X 3141 ~~Allibertia~~? - Rubiaceae - shrub - 2 m. - flowers white ③

3142 ~~Aclepiadaceae~~ - herb - flowers green ②

3143 ~~Melastomac~~ - flowers deep purple - small tree - 2 m. ②

3144 ~~Loranthaceae~~ - 3 m. - on Byssonima ②

X 3145 Small tree - flowers red - 2 m. ②

3146 ~~Lecythidaceae~~ - tree - 30 m. - flowers pink ③

3147 ~~Herb~~ ②

3148 ~~Herb~~ ②

3149 // Eriocaulaceae (2)
X 3150 // Herb (2)

Rio Cubijur - 12/8/43

3151 // Ravinala Guanensis - see diary (1)

Mapoboda - 12/10/43

3152 // Hevea - shrub or small tree - 3 m. - flowers yellowish white (6)

3153 Gesneriac - flowers lavender - sandstone crevices (1)

3154 // Apocynac - flowers white to pink (2)

3155 // Melastomac - low flattened shrub - 1/2 m. - flowers orange (2)

3156 // Sobralia decora - see diary

Cabeceras del Cuduyari - 11/26/43

3157 // Woody liana - flowers white (3)

X 3158 // Meliaceac? - tree - 25 m. - flowers white (2)

X 3159 // Cassia - tree to 12 m. - flowers yellow (1)

3160 // Pice - 20 m. - flowers orange (2)

3161 // Legume - tree - 25 m. - flowers rose pink - calyx reddish brown (3)

Yupupan Hall - 11/10/43

3162 // Apocynac - vine - flowers deep yellow (2)

3163 // Apocynac - shrub - 1/2 m. - flowers pink (2)

3164 // Composite - shrub - 2 1/4 m. - flowers yellow - fragrant (2)

3165 // Grass - elevated trunks (1)

3166 // Asclepiad - vine - flowers pink & white (2)

X 3167 // Small tree - 3 m. - flowers deep dull purple (1)

X 3168 // Herb - flowers yellow (2)

3169 // Eriocaulow - flowers white (2)

X 3170 // Bignoniaceal - small tree - 3 m. - flowers white (2)

3171 // Small tree - 6 m. - flowers rose pink - melastoma (2)

3172 // Melastomac - herb - stems red - flowers deep lavender (2)

3173 // Pice - 10 m. - flowers pink (2)

Cabeceras del Cuduyari - 11/26/43

3174 // Scandent shrub - 4 m. - flowers white - fragrant (3)

3175 // Pice - 15 m. - Lauraceal - flowers greenish yellow (2)

3176 // Pice - 25 m. - Andisa? - flowers lilac (2)

3177 *Pice* - 12 m. - flowers pink
 ① ③
 X 3178 *Cultivated shrub* - barbasco - flowers white
 ② ④
 3179 *Woodsy liana* - flowers pink
 ② ⑤
 3180 *Cyclanthus* - epiphytic - flowers pink
 ① ⑥
 3181 *Bignoniace* - riverside tree - 8 m. - flowers yellow
 ①
 X 3182 *Genipa?* - tree to 15 m. - flowers white aging tan
 ②
 X 3183 *Pice* - 25 to 30 m. - stamens pink - "Cun-cuh" cubes.
 fruits used for barbasco

Yapaboda - 12/10/43

3184 *Eriocaulon*
 ②
 3185 *Melastomac* - shrub - 1½ m. - fruits pink
 ②
 X 3186 *Melastomac* - woody bush - 1 m. - flowers pink
 ②
 X 3187 *Shrub* - 1½ m. - flowers white - fruits red
 ②
 3188 *Small tree* - 6 m. - probably same as #
 ②
 3189 *Melastomac* - spreading shrub - 1 m. - fruits
 pink - probably same as # 3155
 ②
 X 3190 *Bombax* - flowers cream - shrub 2 m.
 ②
 X 3191 *Lycopodium* - creeping plant in open savanna
 ②
 3192 *Eriocaulon?* - flowers white
 ②
 3193 *Shrub* - 3/4 m. *Melastomac* - flowers pink
 ②
 X 3194 *Shrub* - 1½ m. - witches broom - flowers yellow
 ②
 3195 *Juncaceae* - flowers yellow
 ②
 3196 *Dilleniaceae* shrub - 1 m. - fruits red
 ①
 3197 *Byssinina* - flowers yellow - woody bush ½ m.
 ②
 3198 *Sub-shrub* - fruits orange - ½ m.
 ②
 3199 *Eriocaulaceae*
 ②
 3200 *Pennstroemiace* shrub - 2 m. - fruits yellow
 ②
 X 3201 *Juncaceae* - flowers yellow
 ②
 X 3202 *Juncaceae* - flowers yellow
 ②
 3203 *Orchid* - terrestrial - flowers yellow
 ②
 3204 *Catasetum?* - flowers green
 ①
 X 3205 *Very handsome* - blue flowered bush.
 ④
 3206 *Herb* - flowers green
 ②
 3207 *Juncaceae* - attacked by orange fungus
 ⑥
 3208 *Eriocaulon* - 1 to 1½ m.

Fls. yellow

X 3209-A - ^{Hab.} Musupai - 11/10/43
3209 ✓ Apocynac - vine - flowers yellow ②
X 3210 ✓ Bignoniacae - liana - flowers white ②
3211 Eriocaulaceae - flowers white ②
3212 ✓ Eriocaulaceae - flowers white ②
3213 ✓ Eriocaulaceae - flowers white ②
X 3214 ✓ Podostemonaceae - flowers white ②
X 3215 ✓ Podostemonaceae - flowers stems pink - stamens white ②
Cabezas del Cuduyari - 12/10/43
3216 Legume - trees - 30 M. - flowers white stamens red ②
X 3217 Pice - 6 M. - flowers white - calyx pink -
Rubiaceae ④

Mapaboda 12/10/43

3218 ✓ Herb - flowers red ②
X 3219 ✓ Sedge ③
3220 ✓ Mania ? Bromeliaceae - Rocks of Casa del Galls ② ⑥
3221 ✓ Mania - same location as above ② ⑤
3222 ✓ Epidendrum - flowers rose pink ③ ⑤
3223 Bromeliad - mania? - forms branching colonial
shrubby clumps - flowers white ①
3224 ✓ Ophite sohsalia - pleasant fragrance ①
3225 Legume - woody liana - flowers lavender ②
3226 Shrub or small tree - 3 M. - flowers white ②
X 3227 Rosantea - shrub - 2 M. - flowers greenish white ②
3228 Calliandra - flowers maroon - shrub 1½ M. ②
3229 Loranthaceae ⑤
3230 Small tree - 4 M. ②
3231 ✓ Annonaceae - tree - 5 M. - flowers greenish ②
X 3232 ✓ Pice - 5 M. - flowers white ②
3233 Peliciera? tree - 3 M. - flowers pink ①
3234 Pice - 4 M. - flowers old rose - Fabaceae ②
3235 ✓ Herb - flowers lavender ②
3236 Shrub - compositae - 3 M. - flowers lavender ②
3237 ✓ Amaryllidaceae - shrub - branched - 1½ M. -
flowers white ②
3238 ✓ Asclepiad - flowers greenish ②

3239 Asclepiad - flowers greenish tan

(2)

3240 Epidendrum L. + P. reddish tan - lip white
flowers reddish.

(2)

X 3241 Small tree - 3 m. - flowers yellow

(2)

3242 Small tree 3 m.

(2)

3243 Proc. - 4 m. - flowers greenish yellow

(3)

X 3244 Phyllthus - shrub or small tree - 2 m.

(2)

3245 Shrub - 1 m. - flowers pink

(2)

3246 Asclepid - vine - petals blue green - center dull
mauve.

(2)

X 3247 Vine - river bank - flowers pink

(2)

Lab. Cubique - 12/8/43

(2)

3248 Nectynia - tree - 13 m. - flowers orange - inflorescence excep-

(2)

X 3249 Shrub or small tree - 3 m. - Pentid - flowers
bright yellow

(3)

3250 Bignonaceae - liana - flowers white

(2)

3251 Pouzouma - tree - 20 m. - river bank
Muisipai - 11/10/43

(2)

3252 Astrocarium acule - see diary

(1)

Rio Cuyuni - 1/20/44 Vespas.

X 3253 Liana - flowers red

(3)

3254 Proc. - 25 m. - flowers pale green

(4)

3255 Acaulescent or stemless palm - Malacaria 9 rice flowers -
white fibres -

(1)

X 3256 Liana - flowers greenish white

(3)

3257 Bifuraria - flowers pale tan - reticulated leaf margin -
labelum fringed

(1)

3258 Bulbophyllum? - flowers tan splotched brown

(1)

3259 Rubiaceae - woody herb - flowers calyx orange,
corolla bright yellow.

(1)

Rio Cuyuni - "Yapo Bo Da" 1/23/44 -

3260 Small tree - 3 m. - milky juice - fruits eatable

(2)

3261 Small tree - 2 m. - flowers tan

(2)

X 3262 Bombax - small tree - 1 1/2 m.

(2)

3263 Small tree - 1 1/2 m. flowers pink ②
 3264 Shrub - 2 m. flowers red ①
 3265 Penstemonia - small tree - 3 m. ①
 3266 Small tree - 4 m. - fruits purple black ③
 3267 Shrub - 1 m. ③
 3268 Maripa? or Pitcairnia - flowers white ①
 3269 Small tree - 3 m. - flowers yellow ④
 3270 Herb - flowers greenish yellow ①
 3271 Apocynaceae - small tree: 1 1/2 to 2 m. - flowers white ④
 3272 Small tree - 2 m. - fruits red brown ③
 3273 Melastomaceae - shrub - 1 1/2 m. - flowers white ②
 3274 Cryptopodium - flowers dull yellow ①
 3275 - Pice - 4 m. - flowers white ③
 3276 - Penestrial orchid - flowers rose purple ②
 3277 - Palm - Syagrus? - Stipe thick - 2-4 m - Fruits chestnut
 ined - foliage - pinnate - leaves pinnate - about 6-8 ②
 in specimen 3 cm -
 3278 - Myrsinaceae - Stipe thick - wedge 6-8 m. Flowers ①
 pale blue Fox tail leaves - wedge - 6-8 flowers -

 Yurupari - 2/20/44 -

 3279 - Sapoche - to 2 1/2 m. ②
 3280 - Herbs - fls. orange - ⑦
 3281 - Sapoche - ④
 3282 - - ⑤
 3283 - Besleria - yellow flower - 1 m. fls. red - ③

Rio Quichari - 2/16/44

3284 - Flowers pink & white - Habenaria? ①

 284 - A - Renostaria? showing in heavy forest

Rio Querari 2/16/44

3285 ³²⁸⁵ - Gesneriac - growing in termite nests - flowers pale pink ①

3286 ³²⁸⁶ - Mayahoba - 12/10/43

3286 ³²⁸⁶ - Pitcairnia - flowers white ②

3287 ³²⁸⁷ - Juncaceae - flowers yellow ③

3288 ³²⁸⁸ - Musapace - 2/20/44

3288 ³²⁸⁸ - Herb - flowers yellow ④

Rio Querari 2/10/1944

3289 ³²⁸⁹ - (1) Bad rubber - slender trees to 30 M tall - trunks cylindric latex yellowish drying pale yellow - bark grey slightly flaking - inner bark yellowish - leaves horizontal - with greenish white undersurfaces ①

3290 ³²⁹⁰ - (2) Good rubber - trunks cylindric - 30 M tall - bark brownish grey - slightly flaking - inner bark reddish brown - latex pale yellow drying bright yellow - stipe

Rio Pitaloton 2/12/44

3291 ³²⁹¹ - (3) Very good rubber - tree 25 M tall - trunk cylindric - bark grey slightly flaking - inner bark reddish brown - latex of larger trunks pale yellow of branches bright yellow - leaves erect with whitish undersurfaces - prominent scaly terminal bud.

3292 ³²⁹² - (4) Trunk as in (3291) - bark very hard with sandy texture - grey slightly scaling outer bark - inner bark pale tan.

Rio Nauyos 2/19/44 - Cissaceae

3293 ³²⁹³ - (5) Bad rubber - slender tree - 20 M tall - latex white drying yellow - leaflets seclinate - green on lower surfaces.

Rio Nauyos 2/20/44 Musapace

3294 ³²⁹⁴ - (6) Tree 20 M tall - good rubber - latex white drying mat white - leaves horizontal - juvenile leaves with lavender undersurfaces.

3295 ³²⁹⁵ - (7) Tall tree 30 M - leaflets erect - whitish on lower surfaces rubber good Latex pale yellow

3296 ³²⁹⁶ - (8) Leaflets erect - tree 30 M - rubber good. latex yellow

3297 ³²⁹⁷ - (9) - Latex bright yellow - good rubber - new leaves bladd red - juvenile leaves very large - mature leaves much smaller leaves semi-erect flowers yellow

Rapid Rio Bacuraba 11/4/44

3321 - Asclepiad vine flowers dull yellowish green
X 3322 - Sedge -
3323 - Small tree 3 M flowers pale pink ④
3324 - Small tree 4 M flowers pale yellow
3325 - Orchid - flowers pale pink.

Villavicencio 11/2/45

3326 - Pae - 10 M - flowers white - legume
X 3327 - Bush - flowers blue
X 3328 - ³³²⁹ Euphorbia - 15 M. - flowers scarlet
X 3329 - ³³³⁰ Shrub - 1/2 M - Acanthaceae - flowers white
X 3330 - Convolvulaceae - vine - flowers purple
X 3331 - ³³³¹ Jacaranda - flowers blue/purple
X 3332 - ³³³² Composite - shrub - 1/2 M.
X 3333 - ³³³³ Cassia - shrub - 2 M. ①

Rio Negro - vicinity of Mito - 2/6/45

10 P.M.

3334 - Shrub - ^{10 P.M.} Melastomaceae - common to seasonally flooded
margins of streams - flowers white - ②

Rio Negro - vicinity of Mito - 2/22/45

3335 - ³³³⁵ Browallia - Siphonia - bush 8-10 Mts Ht -
3336 - ³³³⁶ Passiflora - vine Shirley only - fls. scarlet - ③
3337 - ³³³⁷ Hovea - tree - 20 M - River bank - latex pale
yellow - quality very poor - leaves nearly
horizontal. curious development of 4 carpal
in single fruiting branch - under surfaces
of leaves bright green - new twigs red - ①

3338 - ³³³⁸ Hevea - tree - 20 M - latex pure white -
quality weak - leaves nearly horizontal -
under surfaces whitish - ③

3298 - (10) Bad rubber-growing in mixtales - tree 20 M tall
latex yellow - leaves decurrent - rubber very bad.

NOTES TO HERE SENT WOODS ON 4/2/46

(NOTE - All Herba material has been sent to
Dr. Rolland T. Moore 30 Nov 48 for study.)

Rio Cudugari 8/15/44

3299 - *Acacalis cyanea?* ①

X 3300 - Pae - legume - flowers yellow - 20 M ①

3301 - Orchid - flowers ^{SCUTICARIA} ~~specie~~ very fragrant ①

X 3302 - Legume forming thickets along stream banks - flowers white ①

3303 - Pae - 20 M - flowers pinkish white ①

3304 - Small tree or shrub along stream banks - flowers greenish ^{ish} ①

~~3305~~ (Bacuraba rapids) Rio Parape (Guaratapuim) 12/8/44

3305 - Perennial Aroid - spathe dull purple - ②

X 3306 - Cassia - tree - 15 M - flowers bright yellow ①

3307 - Clusia - tree 5 M - flowers pink ⑥

X 3308 - Pae 20 M - flowers white ①

3309 - Melastomac - growing on boulders - flowers pink ①

X 3310 - Composit - shrub - 1 M - flowers white ①

3311 - Sobralia - 2 M - flowers white throat yellow ①

3312 - Small tree - 4 M - flowers white ②

3313 - Apocynac - vine inflorescences pendent
bracts pure white - flowers yellow with pink centers ③

3314 - Epiphytic aroid. ②

3315 - Ficus - tree 15 M. ④

3316 - Apocynac - 10 M - flowers white ④

3317 - Bignonina? - flowers pink - 8 M COMMON TO
MATERIAL RECEIVED 12/8/44

3318 - Small tree - 6 M ①

3319 - Bromeliad epiphytic ②

3320 - Herb - flowers yellow Rio Paranaipichuna 12/8/44

=

3339

3339 - Passiflora - Fls. scarlet -

(5)

3340

3340 - Passiflora - Fls. lavender -

(5)

340

340 - St. of Clados - Huay Riva, Common to River

Banks - Fls. white - Fruits yellow -

(5)

341

341 - TREE - 30 m - Fls. pink -

(5)

342

NOTES seen wooden ro house 4/24/46

VICINITY OF MIRÓ - RAJES - MARCH 4, 1945
 (with Pedro Lopez)

343 - Mimosa sp - TALL TREE - 30 m -
 called locally "mastic tree" (10)

344 - Locally - TREE - 25 m - Stipe like
 called "Abio - Rana" (5)

345 - TREE - 25 m - called "TURUBI" (5)

VICINITY OF MIRÓ - RAJES - 3/21/45

346 - TREE - 20 m - Petals blue - petaline
 Rose pink - lavender - filament - TREES most
 frequent in low - poorly drained areas - (5)

347 - Vochysiia - TREE - 30 m - Flowers orange - (5)
 most frequent on slightly elevated low - in colonies - (5)

Oct. 13, 1945

Villavicencio - Road to Restrepo
5000 m.

3348 ³³⁴⁸ Small tree - 6 m - Melastomaceae - flowers rose pink (6)
3349 Gesneriac - corolla tube - salmon red - corolla lobes green. (3)
3350 ³³⁵⁰ Gesneriac - flowers cream white - on steep road side banks. (3)
3351 ³³⁵¹ Lycopodium _____ P

Oct. 21, 1945

~~Serrania~~ ^{Serrania} south of San Martin - Dept de Putumayo

2352 500 m.

3352 Palm - common in forest patches - trunk solitary ringed - 4 to 5 in. in diameter - fruit red - average 6 to 10 m. height - having 8 to 10 live fronds with no crown shafts - fronds erect with horizontal tips - basal fronds often drooping - spathes 2 to 4 in inflo. - foliage erect or semi-erect in flower, usually pendant in fruit. Flowers straw yellow, fragrant. Previously seen Napo-bola area alto Cuduyari

3353 ³³⁵³ Tree - Lauraceae - 15 m - flowers pale (1)
3354 yellow. (5)

3354 Gentianaceae - flowers pale green to whit. (1)

3355 Zamia (all specimens seem caudexent) (2)

Oct. 33, 1945

Road to San Martin near the Rio Ocoa

*3356 Bromeliaceae - flowers cream white - ^{common} common
- to road side banks.

3357 Bactris - 12 to 15 ~~ft.~~ ft. dense clumps ^{up to} up to
40 cais averaging 5 to 6 fronds each.

3358 Bactris - average 5 M. & dense clumps from
10 to 40 cais $1\frac{1}{2}$ in. diameter with 5 to 7
fronds.

*3359 Melastomaceae - flowers pink - common road side ^{side herb} herbs

*3360 Loria Guayaquil - tall herb up to 3 M in ^{road} road
side fields - flowers pale yellow.

3361 Piperaceae - tree up to 20 m. - flowers white

*3362 Passiflora quadrangularis - small tree to 5 m. - fracts scarlet
common.

*3363 Nectandra - tree to 25 m. - flowers orange.

3364

Nov. 20, 1945
Ahu Igasape - Conquistador Vaupe - Region east
of Mitu -

3364 - *Acacalis* - sepals & petals blue - labellum lavender
3365 - *Passiflora* - flowers scarlet.
3366 - *Pice* - 35 m - flowers yellow - frequent in forest
3367 - *Pice* - 25 m - flowers orange & legume.
X 3368 - *Pecoma* - tree - 6 m. - flowers yellow.
3369 - *Liana* - apocynace - flowers yellow.
~~3370~~

Nov. 21-1945
GUARACAPORI CACHOEIRA, Rio Vaupe - Region east of
Mitu -

X 3370 - *Strychnos* - liana - flowers cream yellow
3371 - *Mosandea* - epiphytic shrub - nectaries scarlet
X 3372 - Sedge - common to upper river (seen in great
quantity in upper Guicayu and Macu - Parana)
3373 - *Pice* - 20 m. - flowers green
X 3374 - Legume - tree - flowers lavender - forming stunted
trees - 2 m. - on granite near cachoeiras trees
to 5-6 m. in marginal forest.
3375 - *Pice* - 20 m. - flowers white.
X 3376 - *Pice* - 30 m - flowers white.
X 3377 - *Pice* - 25 m. - flowers pink.
3378 - Liana - legume - flowers dull purple.
3379 - Legume - tree - 10 m. - flowers bright pink.
X 3380 - *Melastomac* - tree - 6 m. - flowers white
3381 - Liana - flowers white.
3382 - *Malpighia* - liana - flowers yellow
3383 - Small tree - 6 m. - flowers white - frequent on
flooded river margins.
3384 - *Myrsicaceae* - small tree - 6 m. - flowers white
fairly frequent on flooded river margin.
3385 - *Pice* - 15 m. - flowers purple
3385 - A - *Bifuraria* - epiphytic - ①

3386 ³³⁸⁶ Passiflora - flowers blue

3387 - Nov. 20 - 1945

Abijuru Iguaçape -

3387 ³³⁸⁷ ~~2387~~ Apocynaceae small tree - thickly set in
selvas - 5 to 6 m. lower trunk swollen - flowers
white - common in lower course of stream.

~~3388~~ - Nov. 18 - 1945

Bacuraba' - Cachoeira, Rio Vaupes. Region
S-E of Mito - 200 ft.

³³⁸⁸

3388 - Small tree - in heavy forest - 10 m. - flowers white

3389 - ³³⁸⁹ Legume tree ^{60ft} common to river front - flowers
yellow - foliage greyish.

3390 ³³⁹⁰ Legume - Swartzia? - tree - 25 m. - flowers
pale pink - fairly frequent to river front.

~~3391~~

Nov. 12 - 1945

District of Cincos - Vaupes 250 ft.

3391 ³³⁹¹ Gentianaceae - flowers blue - in heavy forest.

~~3392~~

Nov. 8 - 1945

Miaflor - Vaupes - 300 ft.

3392 ³³⁹² Pubiac - shrub or small tree - 8 m - flowers yellow

3393 - ³³⁹³ Psidium guajava - flowers yellow

3394 - ³³⁹⁴ Tree - 20 m - legume - common - flowers white

3 Nov. 11 - 1945

Yerupari Falls, Rio Vaupes.

³³⁹⁵

*3395- TREE - TO 10 m - fls. bright yellow -

Nov. 18 - 1945

Bacuraba - Vaupes

3396 ³³⁹⁶ Plumeria - ~~10 ft~~ - flowers white - tree

6 to 8 m. - fairly frequent near cachaeras

3397 - ³³⁹⁷ Apocynaceae - vine - flowers pale yellow

398 - ³³⁹⁸ Apocynaceae - vine - inflorescence pendant - calyx
lobes yellow - inner tube pink - bracts white

3399 *Dioscorea* - flowers dull purple
 3400 Small tree - 10 ft. - flowers green
 3401 Spreading tree - 10 m - flowers pink - fragrant -
 fairly common on granite overhanging rapids
 3402 *Ixertia* - shrub - 2 m. - flowers yellow - fragrant
 3403 Gentianac - flowers pale green ^{ON GRANITE OUTCROPS.} common

Nov - 21 - 1945

Puñon - ~~Huayra~~ Cachoeira - Region
S-E of Mito - Rio Vaupes - Nov. 21 - 1945

white

3404 - Tree - 20 m - on rocks above rapids - flowers white
 Villavicencio - Dec. 2. 1945
 *3405 - Composite - tall woody herb - 1½ m. - flowers
 pink
 3406 - *Cladodendron* - ^{SCAMANDRALE} vine - flowers pink
 3407 - *Asclepiad* - flowers white - vine

Rio Meta - Vicinity of Remolino - Aug. 18, 1945

3407-A - Roystonea - TREES TO 25 METERS, +
 ISOLATED SPECIMENS, OR IN GROUPS, GROWING
 INTERMIXED WITH *Sapium*. 12-16 LVS
 FRONDS CARRIED HORizontally, WITH DROOPING
 TIPS. TRUNK CYLINDRICAL, WHITE, OBSCURELY
 RINGED TO 20 TO 24 INCHES IN DIAMETER
 AT BREAST HEIGHT. CROWNSHAFT ABOUT 2
 METERS - INFLORESCENCES 2-3 - WHORL OF 10-12
 AT 45° ACCORDING ANGLE - FRONDS VARIOUSLY
 FRIED BLACK -

3408 4th

METERS TALL
20ft 200-
230 meters.

NOTES ^{OF 10 TO 12 FEET}
7/9/46

Plants

of

Panama

El Valle de Anton 1000 M.
March 16, 1946
North Side

3408-³⁴⁰⁸ Palm - 4 m - averaging 5 fronds. - trunk
about 4 in. in diameter (1)

3409-³⁴⁰⁹ Small tree - 3 m - flowers white. (2)

3410-³⁴¹⁰ Shrub - *Cestrum* - flowers yellow $1\frac{1}{2}$ M. (4)

3411-³⁴¹¹ Calumma - epiphytic shrub - shrub -
1 to 2 m - flowers yellow - under sides of (4)
leaves dark red.

3412-³⁴¹² Colubrina - flowers red - epiphytic (11)

3413-³⁴¹³ ~~Picea~~^{Symplocarpus} - 30 m - guttiferous & yellow (4)

3414-³⁴¹⁴ Latap - flowers dark red - ~~Platia?~~? (4)

3415-³⁴¹⁵ Epiphytic shrub - 2 m - Lcheliaceae? - (6)
flowers purple.

3416-³⁴¹⁶ Davallia - epiphytic shrub -
3 m - calyx red - corolla tube white (8)

3417-³⁴¹⁷ Pleurothallis - flowers maroon - (3)

3418-³⁴¹⁸ Picea - tree - 30 m - (4)

3419-³⁴¹⁹ Picea - 30 m - flowers pink (4)

3420-³⁴²⁰ Pachystachys - flowers yellow - (1)

3421-³⁴²¹ Rubiaceae - epiphytic bush - (1)

3422-³⁴²² Orchid - flowers brown - *Playberis* variega (1)

3423-³⁴²³ Schefflera - epiphytic shrub - 1 m (4)

3424-³⁴²⁴ Oncidium - flowers yellow - (1)

3425-³⁴²⁵ Begoniad - (1)

3426-³⁴²⁶ ~~Picea~~^{Calocarpum} *Nigrescens* - 30 m -
flowers green - NOT viride - NOT nigrum (10)
(19 numbers) (4 sheets) (5 Syms - etc.)

VICINITY OF PIÑA, HILLS BORDERING TATUM LAKE - 20 M -
4-7-46

- 3427 - *Dicentrum* - flowers dull purple - (2)
- 3428 - *Woody liana* - flowers ladder - growing
in tops of large trees -
- 3429 - *Pice* - 20 M - flowers tan
- 3430 - *Geonoma* - single trunk - 2 1/2 in in
diameter - 3 M. tall. *Bivalvia*
- 3431 - *Passiflora vitifolia* - vine - scarlet
flowers
- 3432 - *Rombertia* ^{conspicua} - large woody vine - flowers
red

Swamps bordering Rio Chagres
Vicinity of Post San Lorenzo - 0 M.

- 3433 - *Lauraceae* - (meliaceae) - woody
liana - bracts orange -

VICINITY OF CERRO JERE - RIVER BACK OR
PACORA - 600 M - 4-23-46

- 3434 - *ENTEROLOBIUM* ^{guttatum} - TREES AVERAGING 25 METERS -
Flowers orange, white. called "GUABINO".

- 3435 - *Geonoma* - Average 2 1/2 M - 12-15. Flowers
towels yellow - 1-1 1/4" diam. Inflorescences
present. Common - Stems by 5. Costations

- 3436 - *Tecomanthes* ^{Chilensis} - trees averaging 25 meters -
leathery - flowers 3 1/2-4 L. long.

- 3437 - *Siparuna*? - trees - to 20 M. flowers
white - fragrant

Dympnonia strobolifera L.F.

3438 - ~~Pithecellobium~~ - Trees occurring 20 m.
in Rowans in Periodically Flooded Meadow &
Swamp.

3439 - Lauraceous Small TREES - 10 m -

3440 - *Baccaea* - Stoloniferous - 3-4 cm dia - 1 1/2"
diameter - to 5 m tall. Spikes on corrs
in whorls 5" apart - Clusters of 5-6 live
flowers - seems closest to *B. Divisicapsula*

VICINITY OF PACORA - 25 m. Flowered
in the collection of DR. H. M. FREDERICKS
5/9/46

3441 - *Oncidium PANAMENSE*? - Segments, petals & labellum yellow
with reddish purple red-brown. Corolla
3442 - *Oncidium* - Plants identical with *O. PANAMENSE*
Flowers similarly colored, but different in peduncle

VICINITY OF SAN CARLOS - 100 m. Flowered
in the collection of MR. HENRY DUNN. 4/20/46

3443 - *Epidendrum ATROPURPUREUM* ^{var.} ^{ATROPURPUREUM} variety with segs
with purple spots & petals & very deep inwards
rose back. Pickle -

VICINITY OF STUBOR, CANAL ZONE - 100 m.
5/13/46

3444 - *Orechia* - *Epipteryx* - Flowers white
Ovary obscured by *Micranthes* (livel.) Robt E

Vicinity of Ptco RR - Prov. of Parana - About
0 - 20 m. - 5/12/46

3445 - Tree - 6 m - Fls. very fragrant - Rbd - ⑦

3446 - Ficus - tree up to ^{20M} trunk like F. nitida - ⑯
Savanna near coast -

3447 - Bania ^{Laurifolia} - tree rocky bank - fls. yellow - ⑫

3448 - BANIA - 3 m. fls. white - ⑬

3449 - LIMA - fls. white - fragrant - ⑮

3450 - CECROPIA - tree or scandent tree - 10 m.
Fls. green - flowers small red -
Other trees have strong smell. ⑪

3451 - TREE - 20 m - Dipterocarpus - fruits Rbd - ⑩

3452 - Rubiaceae - SHrub - 1/2 m - on boulders in sandy
beds - Flowers white - known Rivoli's Bush. ⑩

3453 - TREE - 10 m. flowers white - ⑫

3454 - Clusiia - tree - 15 m. ⑨

3455 - CORDIA - Flowers tiny - (2 mm) yellow - fruits Rbd
conspicuous. ⑥

3456 - CATASPERMUM VIRESCENS - STAMINATE fls. ①

HANO DEL VOLCAN - Province of Chiriqui
1500 - 1600 m. 5/27/46 with Dr. B. FAUCETTE

3457 - ELEAGANIAS - on banks of Volcanic river
Boulders - fls. yellow - ⑩

3458 - TREE - 6 m - fls. yellow - ⑩

3459 - PERNAMBUCO - 1/2 m. white - R

3460 - ERICACEAE - shrub or small tree - 4 m. fls. ⑥

3461 - white -

3462 - SHrub - 1/2 m. ⑧

3462 - ERICACEAE - SHrub - 2 m. fls. pink. ⑤

3463 - ERICACEAE - SHrub - 3 m. fls. pink -
Corylus type pink - corolla lobes white. ⑩

3464 - Quercus - 10 m., in rocky road - (15)
 3465 - Quercus - tree - 20 m. (6)
 3466 - Tree - 15 m. Anacardaceae? - Schinus (10)
 3467 - Quercus - 20 m., in rocky road - (9)
 3468 - Alnus - tree - to 25 m., SCATTERED, BUT
 Fernin ^{ON SLOPES} nearly pure stands AT 2500 m.
 road - 2500 m. (17)
 3469 - Shrub - 3 m. VIBURNUM? - Fls. pink - (3)
 3470 - Shrub - 2 m. Fls. brown - (6)
 3471 - Shrub or small tree - VIBURNUM? - 4 m.
 Fls. white - (5)
 3472 - SOBRALIA - ON BOULDERS - & q.p. white - lip
 yellow - with creases above (3)
 3473 - SOBRALIA - on vertical ASA & gravel banks
 B & P white - lip yellow (2)

CERRO PUNTA - CHIRIQUI Province
 Headwaters of Rio Chiriquí Viejo -
 2000 m. 5/28/46

3474 - ERYTHRINA CHIRIQUensis - tree - 25 m.
 Fls. red - sea wood simple - (5)

Vicinity of CONCEPCION, CHIRIQUI Province
 100 m. 5/29/46 with B. B. Fairchild

3475 - Stylium - tree - 10 m. (15) (15)

Vicinity of Remasios - CHIRIQUI Province
 100 m. 5/30/46 with B. B. Fairchild

3476 - Tree - bromeliad - 20 m. F SCHWEITZER (5)
 3477 - Tree - 15 m. Calostoma - (8)
 3478 - Bromelio - Epiphyte - new lawes 220 - Fls. blue (4)

Cerro Puma - Chiriquí Province - 5/24/46
2000 m. with A. R. B. Fairchild

3479 - EPIDENDRUM - CLIMBS TO 1 M. Fls. GREEN - ①
3480 - STAKIS - Fls. red - Brown - ①
3481 - Phaeothamnus - Fls. Maroon - ①
3482 - OCOTEA - TREE - 30 m. ⑯
3483 - MELASTOMACEAE - small tree - 4 m. Fls. white ⑬
3484 - BEONIA - 75 cm. Fls. white - ④
3485 - ARDISIA - TREE - 15 m. Fls. pink - ⑫
3486 - NETTLE - 2 m. - Fls. orange - ①
3487 - ISARTIA - Small tree - 3 m. Fls. purple - ⑩
3488 - Epiphytic Fern - ②
3489 - SAKAS - 25 cm. Fls. red - ④
3490 - LAVRACEAE - TREE - 30 m. ④
3491 - Poecilias ^{copying} - 30 m. ⑧
3492 - Melastomaceae - TREE - 12 m. Fls. pale green -
Never expansive - with no spine, stem - very smooth ⑪
TAKI
3493 - LOCHMIA - Fls. yellow - with red-brown
spots - ①
3494 - Eriocarpae - Epiphytic Shrub - 2 m. fruits purple - ⑦
3495 - ROBES - 4 m. fruits black ③
3496 - Poecilias - TREE - 30 m. ⑤9
3497 - Melastomaceae - TREE - 15 m. Fls. purple - ⑧
3498 - Asclepias - vine - Fls. green ⑥
3499 - Lecanora - vine - green - ⑨

Llano del Volan - 1500 m. 5/27/46
with A. R. B. Fairchild

3500 - CHUSIA - TREE - 8 m. epiphyte or BARKLESS - ⑦
3501 - TREE - 6 m. Fls. white - CERTRA ? LANTH. ⑩
3502 - LOCHMIA - Fls. yellow - spots red-brown - ⑤
3503 - CHUSIA - TREE - 6 m. common or few flow
Associated with CERTRA LANTH. - ⑦
3504 - MAXILLARIA - Fls. tan - ①

Cerro Punta - 2000 m. CHIRIQUI Province
Headwaters of the Rio Chiriquí Viejo -
IN company with BRADLEY FAIRCHILD - 5/23/46
Mosses & Liverworts

3505 - FUCHSIA - Shrub or small tree - 4 m.
Fls. purple - (29)

3506 - Passiflora - vine - FRUIT bright pink
Fls. pale green - (3)

3507 - Tree - 10 m. Fls. greenish tan - (10)

3508 - Lycopersicum - Tree - 30 m. - (3)

3509 - Solanum - Herb - 50 cm. Fls. tan - (5)

3510 - NORANTEA - Epiphytic shrub - Nectarines red -
Fls. tan - pollinated by Hummingbirds - (6)

VICINITY OF PUNTA GORDA - CHIRIQUI Province
100 m. 5/30/46 - with BRADLEY FAIRCHILD

3511 - Brassavola nodosa - fls. white - (1)

3512 - OATAGUAYA ^{OATAGUAYA} ~~FOLIOLIPUM~~ - fls. yellow
greenish tan spots red-brown yes
red-blown - spotted greenish tan (2)

3513 - STROPHANTHUS ORCHIOPIDES L.C. Rich.
Terrestrial - frequent in small colonies along
highway - scapes of salmon pink fls. without
leaves. (3)

Llano del Volcan - 1500 m. 5/30/46
with BRADLEY FAIRCHILD

3514 - Epidendrum - Latiabre Lindl. fls. green - (2)

3515 - Epidendrum Parkinsonianum Hook. (Foliatum?)
Plants pendant - S. & S. pale greenish yellow
reddish white - (13)

3516 - Pleurothallis - fls. dark red - (1)

Cerro Punta - 5/24/46 - 2000 m. \downarrow with ~~2500m~~

\downarrow 2500m

CERATOPIKE

3517 - terrestrial orchid - fls. white - ~~2000m~~
~~Pentaphyllum~~ ? Mexicanum ①

3518 - bromeliad - epiphytic, clumped habit
50 cm. fls. pink green - spotted red - ⑩

3519 - Ceratopetalum - habit - 1 hr. m., tree fern -
leaves yellow ⑦

3520 - Hedyotis - 3 m. Branches large red -
fls. green - ④

3521 - Palm - seen only at about 2500 m. on
Bogorte trail - Stoloniferous - 40-20 cm. diam
in clump - leaves - unpaired - $1\frac{1}{2}$ - $1\frac{1}{4}$ " diam.
Auricles 3-4 m. tall. very common -
fronds 5-6 fronds. ⑤

3522 - Eripendrum - fls. tan - see Pickle ①

3523 - Quercus - tree 30 m. tall - ⑤

3524 - Palm - solitary trunk - 1" diam. 3 m. tall
UNARMED - auricles - 5-6 fronds - fls. green - ②

3525 - Palm - 3 m. Solitary trunk - $3\frac{1}{4}$ " diam. green
UNARMED - fls. green - ②

3526 - Peltocarya - shrub - 4 m. fls. yellow ⑩

3527 - Herb - 2 m. fls. yellow - ①

3528 - Lycopodium - epiphytic, clumped habit
Also found on rocks in stream bed -
fls. yellow. ⑯

3529 - tree - fern - 4 m. about 12 fronds,
7 mm. wide 6" diam. - fls. green - $3\frac{1}{2}$ m. tall. ④
(specimens in next case on back - green
fls. - mid-section from \downarrow tip.)

3530 - Sphagnum - to 3 m. tall. ⑥

3531 - Palm - "magueye" - single trunk on
very rocky substrate at 1500-2500
m. elevation - becoming with developed
stoloniferous specimens having $6-10$ ^{trunks} $6-10$ ^{trunks}
AT 2500-3000 m. in heavy rain forest

3531 - (continued) turbid height 10-12 m.
Trunks unarmored - pinions (seen in Juve's
specimens) narrow grey - 6" diam. Crown short
very prominently bristly - purple-black -
In flower cones in fascicles 2-4 in number
live branches 6-8 - more or less horizontal
(see photo) flowers pink (see pickle)
maturing fruits black (see pickle)
very common - (Crown short, split
continuously into two equal halves
which were cut out into three transverse
sections for specimens.) Spathes 2 -
(only one complete plant collected but
in other transverse sections, split longitudi-
nally for convenience in preparing.)

Umo deh Volcan - 1500 m. May 23, 1946

3532 - *Epidendrum ciliatum* -

(2) (2)

vicinity of Concepcion - Chilean Province
100 m. 5/29/46 - with red-orange flowers

3533 - *Crypsidium mus* - NOT *C. lepidopus* OR
C. Powellii - fls. brown - (pickle) (10) (10)
ON River bank trees - common -

Ch valle de Tarapacá - North Hills - 1000m.
June 16, 1946 -

3534 - tree - 15 m. fls. white - lavender?
Fairly common on steep slopes of hills
fringe ch valley -

(15) (15)

3535 - *Achisia Sibutii* - shrub - 3 m. fls.
lavender -

(4)

3536 - ARDISIA - SHrub - 2m. Fls. white - (13)

El Valle de Tazon - Dry Forest Hills
700 m. June 15, 1946

3537 - SOKROBIA - STout, Branched Liana -
Fls. cream yellow - fragrant - (25)

El Valle de Tazon - NORTH Hills 1000 m.
June 16, 1946.

3538

3538 - Vine - in tree (*Ficus williamsii*) 15 m.

3539 Fruits yellow - (5)

3539 - Leptostre monopodial lvs. (L. Dauinian
varieg & Rodo f.) 3 ft. lvs. olive - dry
white -

3540 - Ligustrum procumbens Alba & Prunifl. - in
grass - Fls. Orange - (3)

3541 - SOKROBIA - Epiphytic STout BRanched
Liana on STump - Fls. Orange - (12)

San Jose Islands - Puna dry - 20 m.
Collected by MR. WALKER - Balsa - C. 2.
Flowers in his collection June 1, 1946

3542 - Cyrtopodium punctatum - (Picillo ssp.) (7)

El Valle - NORTH Hills - 1000 m. 6/28/46

3543

3543 - Belotia, probably B. paniculata Pittier - 15 m.
Fls. pinkish lavender - leaves pointed - (27)
Narrow pink flowers w. cut over base -

3544 - 3544 - Robinia - SHrub - Fls. bright blue
1 m. tall. probably FARINA ex KUNZE D. S. 1.

3545 - *Bromelia* - epiphytic - bracts scarlet - (25) (25)
 3546 - *Conostachys Kalkensis* (Boeh.) Don
Tree - 4 m. fls. white - common - (21) (21)
 3547 - *Heliconia villosa* Klotzsch - 1' m. bracts
yellow, bracts yellow, corona scarlet. Fls. yellow. (10) (10)
 3548 - *Aphelandra Subverticillata* (Lam.) Don - Common fls. - fls.
lavender. (15) (15)
 3549 - *Costus Nutans* R. Sch. About 7.5 cm. tall
bracts yellow - fls. yellow - (10) (10)
 3550 - *Lecidea obscura* L. Wm. S. J. & lip butter yellow.
lip with orange callus. (See flower in picke) (1) (1)
 3551 - *Chrysopisidae strobophylla* A. C. Smith - epiphytic
branching tree - 1' m. fls. purple - (3) (3)
 3552 - *Asclepias* - vine - fls. lavender - (1) (1)
 3553 - *Heliconia* - Form in clumps in dense shade often
of 4-6 cm. tall - to 2 m. tall - corona well
cladodromous branch flowers having a wavy
margin - bracts orange, orange, often some
translucent white. Flowers predominantly
orange - lower branch - pale white. (1) (1)
 3554 - *Colomnea affinis* Morton - epiphytic - of low
pendant chains of succulent leaves - fls. scarlet (1) (1)
 3555 - *Alloplectus pulcherrimus* Morton - very rare
Matured in old colonies in dense shade - 1 m. tall
fls. scarlet. (4) (4)
 3556 - *Anthopteropsis incisa* A. C. Smith - stout bright
branching epiphyte stem - fls. calyx ~~pink~~^{bright} pink - corolla yellow - (20) (20)
 3557 - *Dyneria* sp. - stout branching epiphyte stem
fls. with heavy rose purple foundation - (5) (5)
 3558 - *Rubinaea*? - Branching epiphyte stem
1' m. leaves succulent - fls. lavender -
lavender, Silver Pink - (3) (3)
 3559 - *Caenocallis* subsp. *virginea* A. C. Smith -
epiphytic stem - 1 m. bracts red - fls.
red yellow - (3) (3)

3560 - MASDEVALLIA COLLINSI L. WMS. EPIPHYTIC - 7000' -
Fls. Rose purple with yellow Spots - ⑤

3561 - ARDISIA GIBERTII Standl. Shrub - 2 m. BARELY
white, pinkish lavender - ⑥

3562 - TROPIDIDIUM CHARLES - in 19428 on lava at base
KOTOBONIJA Sj. Las Negras - 8,400. ft. pink - lip white, marked
Kotobonijslavender (see Pickle) - Stems hairy on
upper part. (SEE Pickle) **Eulophia** ?? ^{SEE 1940} NO. 3791 ①

3563 - ANTIDIUM AFF. LITOREALE Fenzl. Epiphytic -

- 3564 - Trientalis laevigata L. WMS. - EPIPHYTIC
Fls. pink white, yellow wing base yellow.
Spots in throat. (see Pickle) ①

3565 - Clusiodes rosae Sch. in 19428 on lava at base
Sj. Las Negras lavender - petals pale lavender
lip showy yellow Rose lavender - Common ⑤

El Valle - Fleck - 600 m. 6/28/46

3566 - ALEXANDRIAS ERYTHROXYLUS Standl. Trees -
15 m. Fls. white - Common - ⑥

3567 - Hauzia NODOSA Mart. & Gal. - Shrub - to 4 m.
Fls. reddish orange - very common. Many shrubs
in second growth - ③

3568 - SOLANACEAE ? VINE - FRUITS SCARLET
Lycianthes aciculifolia Druce BITTER

El Valle - NORTH - 6/29/46

3569 - ELLAENIUS HYMENOPHORUS Raffl. F. EPIPHYTIC
Fls. orange - lip dark scarlet. ①

Hills south of El Valle - 800 m. 6/29/46

Ilex Juncunguis Standl.

3570 - ~~Myrsinaceae~~ COCONUTBERRY? - Small tree - 3 m.,
Fls. white, common - ⑫

Vicinity of Chupana - 25 mi. 6/28/46.

Physochlaina cymbalaria

3571 - ~~Araliaceae~~ *Lithocarpus* Stand. woody vine,
Fls. pink - Valley of Haway - (16) (16)
FRAGRANT

3572 - *ODONTAONIA Speciosa* Dentl. Large woody
vine - fls. yellow - (6)

Vicinity of La Chorrera - 25 mi. 6/28/46 -

3573 - *Rubaceae* - tree - 8 m. Fls. white, very
FRAGRANT (30)

El Valle - North side, 1000 m. 6/29/46

3574 - *Magnolia affinis* Stand. Trees - to 30 m.
with BUTTERSCOTCH trunks - flowers cream
white - (see picke or flowers & fruit.) (50)

3575 - Orectes - epiphytic - Plants resembling *Platycerium*.
Flowers produced on a short scape at the
base of the stems, present, of 5-6
dark purple flowers reminiscent of
Cyrtopodium exclaiming that the
sepal are not adnate at their tips -
lip tricolored - Possibly in unexpanded
form. (see picke) (2)

3576 - *Aechmea affinis* L.B. Smith - fruit capsular
black - bracts pink white - common - (1)

El Valle - floor - 600 m. 6/29/46

3577 - *Crinum dardoinii* Woodson - (1)

NOTE^s copied 7/10/46
to Herbarium for serial
3568

TRANS-ISTHMIAN HIGHWAY - NEAR RIO SATUN - 100 m.
COLOMBIA PROVINCE - JULY 11, 1946

3578 - RUINERA - TREE - 6 m. Flowers yellow. (5)

VICINITY OF CAMP PINA - COLOMBIA PROVINCE - 7/11/46

3579 - DIOSCOREACEAE - HERE - forming colonies on wet
Shallow Banks. Flowers pale yellow. (P)

3580 - PARTHENOCISSA MICROPHYLLA Barth - Shrub - 2 m.
Calyx red - corolla yellow - common. (5)

3581 - HELICONIA VILLOSA Klattsch - variety with
yellow bracts & red red - 3 m tall. (3)

3582 - HELICONIA VILLOSA - Red variety - Bracts red
ON ENTIRE OUT SURFACES - yellow blotch
NEAR FLOWERS WITHIN BRACT. 3-11. (6)

3583 - HELICONIA PSITTACORUM ? - 3 m - Bracts
red - flowers large, prominently exserted -
yellow, with green tips - this seems
to intergrade with H. STRAUSSII - DIFFERENT
ONLY IN GREATER LEAVES SIZE, NUMBER OF
BRACKETS & COLOR - (SEE PICHLER) (P)

3584 - GRASS - Common on roadside banks -

3585 - ISANTIA HAENKEANA DC - SHrub - 2 m. Calyx
red - corolla yellow - common - (7)

3586 - EUPHORBIACEAE - SHrub - 1 1/2 - 2 m. Fls. white
common - (10)

3587 - COSTUS LEVIS - 3 m - Fls. particularly
purple - common - (1)

3588 - ASCLEPIADAE - VINE - Fls. lavender - (3)

3589 - Small tree - 3 m. Leaves cut to ^{or} MYROPSIS
DASYCARPA (20m, 5m, 3m) wood brown - (11)

3590 - HELICONIA - Cheng's or ^{10 ft up} slender pedunculate canes
2-4 m. Plants clumped - Fls. white (see pic) (11)

3591 - VINE - Fls. pale lavender - id wanted white -
Brown shrubs on sea cliffs. (6)

3592 - *Rubiaceae* - Proinent Shrub - 3 m,
Fls. white - on wind-blown sea cliffs.
⑥

3593 - ~~*Hippocratea bonariensis*~~ -
wet areas back of sea beaches - Fls.
white -
⑫ ⑭

3594 - *Pithecellobium tibicosum* Aubl. - small tree -
6 m. Flowers yellow -
⑯ ⑰

3595 - *Costus* - 2 m. Fls. orange - (see Pickle)
⑬

3596 - ~~*Passiflora*~~? - Small wind-blown tree - 1-3 m.
Fls. white, on sea cliffs -
⑤

3597 - *Citharexylum caudatum* L. - common Shrub -
3 m. Fls. white, fruits orange -
⑯ ⑰

El Valle - north - 7/20/46 - 1000 m.
Rio Irio track - with Herold Tapizco

3598 - *Chenopodium dentatum* Donn. Sm. - Epiphytic
Shrub - sprawling branched 2 m. Bracts pink. ⑤

3599 - *Habenaria* - 2 m. Bracts red - Fls. greenish
yellow - (Habenaria fimbriata sp. cf. sp. nov.
?) Probably a form of # 3583 -
(see Pickle) ②

3600 - *Habenaria* - 1 1/2 m. Bracts broad - boat-like - orange
flowers, yellow - (see Pickle) ②

3601 - Epiphytic Habb. - 1 m. Fls. terminal - pinkish.
(see Pickle) ①

3602 - *Utricularia evanescens* Rupp. f. - Epiphytic
Fls. pale lavender - yellow blotted at base
of corolla - ①

Hills south of El Valle - 400 m.
7/20/46

3603 - *Pithecellobium thompsonii* DC. Shrub - 1 1/2 m
Fls. pale orange - ⑯ ⑰ ⑲

VICINITY OF CAÑO PUNTA - CHIRIQUI PROVINCE 2000 m.
(Flowers in Panama, C. 2.) Collected by Graham
Fairchild. 7/25/46

3604

3604 - *Zygopterum grandiflorum* - New Record
for PANAMA. S. & J. Green - Striped red-
brown - streaks white, with purple lines
& yellow crease patches - bottom white,
the under surface with delicate red & yellow
panicked lined convolvulus on the craggy petals,
with large bands of delicate purple parallel
lines. (See flower in Pickle) ①

VICINITY OF LA PINTA - COATE PROVINCE - 7/31/46 - about
300 m.

3605

Very

common along highway from Antón to Guatapé
& very occ.

3605 - TREE - 15 m. Flowers white - FRAGRANT. ②

3606 3606 *Vismia tuiiensis* (Aubl.) Pers. TREE - 4 m.

calyx brown - corolla yellow - ③

3607 3607 *Durania Repens* L. Shrub - 4 m. fls. blue -
fruits orange - ④

3608 3608 *Antrophyum pettersonii* P. Wilson - TREE - 15 m.
TRUNK WITH NUMEROUS DIO. CONVOLV. COARSE SPINES -
HAVING VERY BROAD BASES - Common - ⑤

VACAMONTE POINT - PANAMA PROVINCE - 100 m. 8/1/46.

3609

3609 - *Cryosophila warscewiczii* (Wendl.) Benth. - Palms
20-35 ft. Stipe trunk - 5" diam. lower 8-15 ft.
densely covered with long branched spines - which
represent a continuation of the basal cone of
roots - upper trunk pitted - rays - unpaired -
aristae - 15-20 live FAN FLORETS - silvery on
under surfaces - In flowerous inflorescences
1-3 - flowers & bracts creamy white -
very common in forest - probably seen by
several & mistaken for many others ⑥

3610 - *Heliconia* - 1 1/2 m. BRACKS BROAD - Keelae - BOAT-LIKE -
BRUNNISH yellow TURNING pinkish with age -
Flowers pubescent, flowers very exserted - pale
yellow - tips dark green - stamens exserted -
(see pickle) (6)

3611 - *Heliconia rostrata* R. & P. (*Heliconia platyphylla* Baker
in Standley Fl. Costa Rica). Shoot Plants to 3 1/2
canes silvery day - INFLORESCENCES pendulous,
bracts red - with yellow tips & midribs - Rachis
yellow - Flowers with tips exserted - yellow -
Fruit blue - common - (2)

VICINITY OF LA CHERRERA - 1000 ft. 7/31/46

3612 - *Ther* - ^{coeruleo} *Lecuana* - 25 m. Flowers pink -
(see pickle) (50)

RIO LAS LAGOS - Panama Province - 20 m. 8/4/46

3613 - *Bignoniac* - Fls. Rose pink - leaves
(11)

El Valle - 600 m. very Finca Tomas Adan.
8/5/46

3614 - *Heliconia* - Dense clumps - 3 1/2 - 4 m. Inflorescences
pendulous - Rachis dark red - bracts dark red -
fls. yellow - ^{tips} ^{exserted} fruit blue - base of leaves
hairy - common - (see pickle) (5)
Bracts present

3615 - *Heliconia* - 3-4 m. Undersides of leaves purple
INFLORESCENCES erect - terminal on long stalk -
1 1/2 m. on basal fls in panicle - BRACKS
sharpened - dark green - fls. ^{LARGE} ^{DARK} rose pink - with
white tips - FRUIT ^{DARK} ^{blue} - fls. prominently
exserted - Bracts present - (see pickle) (4)
base of leaves remains fruit ^{DARK} blue -

3616 - *Hediondilla* - 1 - 1 1/4 m. INFLORESCENCES erect-
Rachis & base of BRANCHES red - Tepals white or
UNOPENED BRANCHES & outer 2/3 of BRANCHES yellow -
Flowers orange-yellow - TEPALS 2x5 mm -
BRANCHES glaucous. Base of leaves rounded.
D - (see Pickle) (2)

3617 - *URARA elata* (Sw.) Griseb. SHrub - 2 - 3 m.
Fls. pink - FRUITS orange - Showy - (6)

3618 - *CALAThea INSANIS* Poirer. 2 m. BRANCHES straw
yellow - Fls. pale pink to straw yellow -
Common - (3)

3619 - *POTHOMERUS palmaria* (L.) Miquel. 1 1/2 m.
Common - (4)

3620 - *COCORDIA* - WOODY LEAVES - Fls. orange - (1)

3621 - Composite - woody Herb - 4-5 m. Fls. dirty
white - *LIBARium APPASSIPILUM* Blake? - (3)

3622 - *Erythrina gibbosa* CUPIDONIUS - TREES - 5-6 m.
Fls. scarlet - Common - (4)

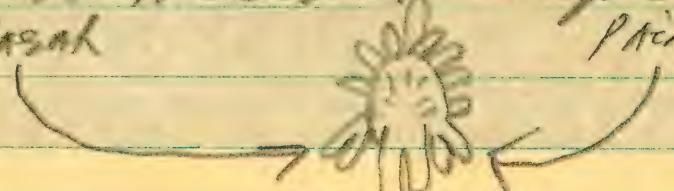
3623 - *CARPODYNA* - ACUMINATE HERB - 2 - 2 1/2 m.
AVERAGE 8-10 leaves - NOT SICKLE-LEAVED -
BRANCHES & FLs. white - (5)

3624 - *CYPHLIA UTRICULOSA* Korthve - HERB - 30 cm
Common on rocks in STREAMS - FLs. purple - (6)

3625 - *CASTILLA* sp. TREES - 20 m. PROBABLY
PLANTED - (2)

3626 - *Ptychosanthus* - SPREADING TREES - 8 m.
Common along streams - (12)

3627 - *CYCNOCHES* - STAMINATE ORGAN - S. p.
& column green - Spotted red-brown -
Labellum white - with 13 tooth-like
processes on the margin - (see Pickle)
Finely Processed Simple - except for
the basal patch, which are branched



3628 - Cycnoches - staminode chart - 3.4 P nearly white, with tiny scarlet rose-red dots - labellum white - with 13 finger processes nearly all of which are reddish - (see drawing & Pickle)

PROBABLY BOLD VARIATIONS OF CYCNOCHES
DIANAE -

3629 - *Heliconia velladiana* Poeppig - stout herbs 3-4 m. Bracts scarlet. villous, membranous smooth with age - fls. yellow - tips scarred. fruits blue - IN FLOWERS
perianths - BASE OF LEAVES BROAD - ON E
lower leaves & on others - villous bracts $\textcircled{1}$
present.

3630 - *Saurauia*? ^{297KINA STAND.} tree - 15 m. fls. white, with yellow stamens - fragrance - $\textcircled{17}$

VICINITY OF MINDI - CANAL ZONE - 10 m.
8/14/46

3631 - *Heliconia* - very stout - 3' m. leaves glaucous on under surfaces - bases rounded - on e lower leaves red - IN FLOWERS
perianths - bracts red - anthers red - flowers yellow - tips scarred - bracts red
present - fruits lavender - (see pickle) $\textcircled{1}$

VICINITY OF CAMP PINTA - 10 m. - 8/14/46

3632 - *Enallagma curcurbitina* (L.) Baill. Roofing
Coastal Highlands - TREE - 10 m. FRUITS
like miniature CALABASHES - Panama total 1169 $\textcircled{2}$

VICINITY OF MADON DAM - 25 M. 8/8/46

3633 - *Heliconia* - 2 m. Bracts greenish yellow.

Fls. monorrhynchos - present - yellow
with dark green tips - Share #3 - #3610 (3)

VICINITY OF CAMP PINTA - 8/14/46 -

3634 - *Aechia* - terrestrial, on steep headlands - (1) (1)
anthurium -

EL VALLE DE ANTON - 8/21/46 - 1000 m.

3635 - *Tillandsia leucostachys* Benth. epiphytic -
Bracts tan - Fls. yellow - (6)

3636 - *Buzmania corycostachya* (Griseb.) Mez - epiphytic
shape Bracts red - Fls. pale white - (3)

3637 - *Cavendishia capitulata* D. Don. - much branched
shrub - 1 1/2 m. Epiphytic - Bracts pink - Fls.
pale lavender - (7)

SPINDACEAE?

3638 - tree 20 m. - flowers dark red - opening
in 3 valves - disclosing the seeds which
are covered with an orange yellow skin - (6)

3639 - *Cycnoches diurne* Reichenb. F. 3. p. & column
pink areas spotted red - brown - Spermatheca white
with 11 unbranched marginal claws. (1)

3640 - mucuna - vine - flowers creamy white in
marcavia-like clusters on long pendant
stems - common along roads - (7)

3641 - *Wickia Benth.* ^{2000 ft. + alt.} - fls. white
locally sp.

3642 - *Achras chilensis* Pittieri ?? TREE - 25 m.
fruits pale yellow - (see Aech.)

3643 - Composite - Fleshy Branched sp; peltate
1/4 m. shrub; in tops of tall trees - Leaves
coriaceous - Fls. purple - Showy - (12) (1)

3644 - Haliconia - 2 m. Inf. erect - Bracts orange,
with reddish blush at base and narrow
dark green margin - Flowers hidden dark
orange - Bantilla present - (see Pickle) (1) (1)

3645 - Tree - 30 m. Fls. pale yellow - (14) (1)

Vicinity of La Chorrera - 8/27/46 -

3646 - Bignoniac - vine - Fls. white, styrax leaves
common along highway in second growth - (7)

Vicinity of Oca - 8/28/46

3647 - Chrysophyllum cainito L. Tree 20 m.
Common in Pedro's short streams. (6)

3648 - ~~Dendrophax?~~ tree - 10 m. Fls. greenish white
common - (7)

Vicinity of San Felix - Chiriqui Province
100 m. 8/29/46

grayantheum croizatii

3649 - Choron ~~Annona~~ (Klotzsch) mouth A.R.
Tree - 12 m. Spherical - Fls. white
common - (6)

3650 - Tree - 6 m. Fls. white - fruits with
covering of brownish yellow powder - (12)

3651 - Tillandsia flexuosa Sw. Flowers red - (4)

3652 - *TUSSACIA WOODSONIANA* - Ovary deep orange - Red
Cordolla yellow - striped orange - Common on
WAT RENOSIOR BANKS. (10) (1)

3653 - *MELASTOMACE* - Shrub - 1 1/2 m. Fls. Pink - (10) (1)

3654 - Shrub - 2 m. Fruits pink -

3655 - *COCOLOBA* - Sprouting tree - 6 m. Mono River
Banks - (9) (1)

3656 - *STERculia apetala* (Jacq.) Kuntze - Tree - 25 m.
Fls. Tan - Mucilage red - Brown - Mono River (2) (1)

3657 - *Buripa Americana* L. Tree - 5 m. Fls.
Pale yellow - Common in pastures -
Buripa carujo H.B.K.? (8) (1)

3658 - *CATASETUM* ~~theococcygium~~ - on fence posts -
Oakland (1)

0 100 m
vicinity of Remondos - 8/29/46 -

3659 - *ANDIRA* - TREE - 25 m. Flowers bluish brown -
DOES NOT FIT A. INGENIA, VASICARIA OR CHIPIA
looks like & species common on the Mopeds. (40) (1)

3660 - *VRIESIA SANQUINOLENTA* Cogn. & Marchal.
Huge tank epiphytes in tops of large trees - (3) (1)

3661 - *CITHAREXYLUM* sp. - Small tree - 3 m. Fruits
orange - Infrequent in second growth - (7) (1)

3662 - TREE - Tiliaceae - 25 m. Fls. yellow (20) (2)

3663 - *Erythrina rubrinervia* HB.K. Fence Post
Common -

(3)

3664 - *WALSCHEWICZIA COACINCA* (Vahl) Klotzsch
Shrub or small tree - 3-4 m. Branches
Scabrat. Fls. yellow - common

(5)

3665 - Tree - 8 m. Fls. white, with yellow
stamens - on edge of mangrove swamps.

(12)

3666 - *Littoralia* - Small tree - 8 m. Fls.
Rose Red - *Catharanthus roseus* (Burm.) Standl. ?

3667 - *Tillandsia usneoides* L. - on tall trees in
mangrove swamps east of Pembaos. (5)

3668 - *Heliconia* - Bracts greenish yellow - Fls. yellow
prominently exserted with dark green tips.
Fruits blue - same as # 3633 & 3610 (5)

3669 - *Bellucia grossularioides* (L.) Trinerv. ? -
Tree - 6 m. Fls. pale pink -

(8)

VICINITY OF Chagres River, Colon Province - 25 m.
9/16/46

3670 - Small tree - 10 m. very common in wet over lawns.
Fluits red - Flowers greenish yellow -

(10)

3671 - *Mikania* ? - Large vine, very common in
shrub & trees - Fls. grayish white -

(10)

3672 - Shrub - 2 m. Malastomace - Petals &
Calyx pink red - Fls. white - common -

(10)

3673 - *Verbena* ? - weedy herb - Fls. blue -

(6)

3674 - TREE - 5m. - Fls. white - Fruits red -
Common in second growth scrub - (2)

3675 - TREE - 10m. Fls. white, with yellow stamens
Same as # 3665 - ~~Thunbergia~~ sp. (6)

3676 - TREE - 20 m. ANNONACEAE P - Fls. cream
yellow - (12) (12)

3677 - Solanum - Shrub or small tree - 3 m.
Fls. white - Common - (12) (12)

3678 - Copania SEEMANNI RIMA & HANKE? Small
tree - 10m. Fruits red - rich cf. BACD
orange - (10) (10)

3679 - Jocaratia COSTARicensis T. M. JOHNSON -
TREE - 20m. Fruits orange - (7) (7)

El Valle - 1000m. North - 9/18/46

3680 - Passiflora - Flowers white - (1)

3681 - Oncidium CABABRAS SCHLR. G. & P.
Rich chocolate brown, labellum
labellar epiphysis - base chocolate brown
with frontal lobe rich yellow - callus
with toothed processes. very handsome -
lateral lobes to lip yellow - (1)

3682 - Hillia TERRANEA Sw. - Epiphytic shrub -
1 m. Fls. white - (3)

3683 - Small TREE - 3 m. Fls. yellow (4)

3684 - ODONTONEMA STRIATUM (NEES) KUNZE
Herb - 1 1/2 m. Fls. red - (1)

3685 - *Razisea spicata* OERST. ? - Root herb or
Shrub - 1 m. Fls. Red - ⑥ ⑥

3686 - *Wulffia bacata* (L.F.) KUNZE ? - scandent
Shrub - 3-4 m. Fls. yellow - composite ⑦ ⑦

3687 - *Acalypha macrostachya* Jacq. Shrub
1/2 m. Fls. Rose pink - ① ①

3688 - *Centropodon radicans* (O. TEE.) W.C. WOOD ? ⑥ ⑥

3689 - *Tillandsia* - epiphytic - ① ①

3690 - *Tillandsia* Adans. 2000. ② ②

3691 - *Burmannia* Donald Smithii MER ex DONALD SM.
Scape bracts lapped red - Fls. yellow - ① ①

3692 - *Stenorrhena tigris* (Downsm.) Woods. TREE
4 m. Bull Horn Fruits - yellow - ③ ③

3693 - *Aechmea* Adonis L.B. Smith - epiphytic
scape bracts Rose pink - Fls. lavender ① ①

3694 - *Aethionandra turanica* (Schlecht.) Liebm.
Herb - 50 cm. Fls. Orange - scarlet - ⑨ ⑨

3695 - *Jacobinia aurea* Hemsl. ? - Shrub or
root herb - 1/2 m. Fls. Bright
yellow - ② ②

3696 - *Centropodon notans* Ph. & OERST. ① ①

HERB - 1/2 m. Fls. Pink -

3697 - *Meyenovia* - Branching epiphytic Shrub
or woody herb - 2 m. Fls. Yellow
with Red - Brown markings -
(See Pickle) ④ ④

3698 - SCHAFERIA ROBUSTA A.C. Smith - STOUT
tree epiphytic shrub - 2 m. leaves
compound - fruit pink - ① ②

3699 - Xiphidium capricorni Aubl. ① ②

El Valle - Floor - 600m. 9/18/46

3700 - Mimosaceae - tree - 20 m. fls. white -
FRAGRANT - common - ②

3701 - TONOBAS ALLENII Woodson - vine - in
Ridge side thickets - fls. dark red - ②

3702 - SMILACANTHUS POLYRHIZOS Mart. ??
PARASITIC SHrub - very common - fls.
red - tipped orange - ⑩ ⑪

3703 - Cupania sp. - TREE - 20 m. - ⑩ ⑪

3704 - COMMELINACEAE - herb - 50 cm. forming
colonies along stream banks - fls. white ⑧ ⑨

El Valle - Floor - 600 m. 9/27/46

3705 - CISSAMPETAS TRIFOLIOLIFOLIA DC. vine,
fls. white - ④

El Valle - NORTH - 1000 m. 9/27/46

3706 - Saurauia ZECKNERI Stand. (S. praeceps) Han
TREE - 30 m. ②

Re-sans 3413 & 3438

El Valle - 1000 m. 9/22/46 -

3707 - MARANTACEAE - 1 1/2 m. Fls. & BRACTS
WHAT - MYROSMIA? - ⑨

Altitude 900m
very
pink.

3708 - Symphonia lobulifera L.F. TREE - 30 m.
Stout roots often proceed from toward 3 ft. or
TRUNK - Fls. Blood red - latex yellow -
Known locally as "Carrillo" also
on Cerro Chirripa & El Yate - latter
common - SEE 3413 - & 3438 ⑩ ⑪

3709 - LAVRACEAE - TREE - 12 m. ⑦ ⑩

3710 - Small TREE - 5 m. Fls. white - ⑨ ⑩

3711 - TREE - 20 m. Flowers red - RUBIACEAE ⑦ ⑩

3712 - HYDRANGEA OERSTEDII BRIG. ? Climbing vine,
resembling, in the juvenile stage Ficus Repens,
developing strong lateral branches on relatively
flat tops of the largest TREES - Stipule fls.
pink or white - ⑬ ⑩

3713 - JACOBINIA AUREA Hawsh. Shrub - 2 1/2 m.
Fls. bright yellow - ④ ⑩

3714 - NEUROLAENA LOBLATA (L.) R. BR. - ERECT - STOUT
HERB - 3 m. Fls. yellow - common on
CUT over land along TRAILS - ② ⑩

3715 - MAXILLARIA - ⑩

3716 - MAXILLARIA VARIAGATA BATAM. Fls. tan - ③ ⑩

3717 - BRASSIA ALBATRII L. var. ⑩

3718 - COLWYNIA ARBOREA - MORTON - Fls. SCARLET.
below yellow lines at the corolla divisions ②

3719 - TREE - 30 m. EUPHORBIACEAE ? ⑦
FASCICULATA VAR. ?

3720 - TILLANDSIUM - SCAPE BRacts RED - Fls. deep
INDIGO Blue - ④

3721 - DORANTHACEAE - PARASITIC SHrub - IN TOPS OF
TREES - 30 m. BRANCHES long - TO 2m.
FRUITS Blue - ⑤

3722 - TREE - 25 m. FRUITS Black-purple - ⑦ ⑩

3723 - GOURMANIA dissitiflora (MORDE) L. B. Smith -
SCAPE BRacts Spring pink - Fls. yellow
TOPped pale green - ④

3724 - Hamelia patens var. STRANGL. Shrub or Small
Tree - 2m. Rb., below yellow - IN SPOTS
SHOWY in clearings - ①

3725 - TREE - 30 m.

3726 - TREE - 30 m. Fls. white

3727 - TREE - 30 m. Fls. white -

3728 - TREE - 30 m.

3729 - MATISIA (QUARARIERA) ^{AFF. CORONATA?} TREE - 30 m.

3730 - PEPPEROMIA - undersides of leaves purple. ③

3731 - SWARTZIA Dariensis Pittieri - TREE - 10m.
FRUITS ORANGE - ⑩

3732 - Small TREE - 3m. Fls. tan - ①

3733 - TREE - 30 m. Fls. tan - FRUITS Red - ⑨

3734 - *Miconia* - TREE - 12 m. Second growth scrub
undersides of leaves red - (10)

3735 - *Burmia nickraeensis* Meek & C. F. Baker
undersides of older leaves pale lavender -
basal 1/2 of new leaves rose red - scape
blocks shining pink - fls. bright yellow -
flowering scape very short - about
1/3 the leaves - (1)

3736 - *Pentadonia* ^{Dennst. Smith?} Absolutely not *P. macrophylla* ^{sunet}
TREE - 20 m. fls. white, fruits purple
SEE also former coll. no. 2801 (7)

3737 - *Solanum* ^{Bracteatum} Kuntze - woody climber
lana, flowers in tops of trees - fls.
yellow - (3)

3738 - *Dendropanax* - TREE - 30 m. fruits
purple - (9)

3739 - *Xylobium floratum* French. (1)

3740 - *Noranta subsessilis* (Burm.) D. C. - tree
branching epiphytic shrub - fruits red - (8)

3741 - TREE - 30 m. milky latex - (1)

3742 - *Pouzouma aspera* Trecul - tree - 30 m.
sap black - (7)

3743 - *Mauraceae* - TREE - 30 m. Quararibea sp. (9)

3744 - orchid - epiphytic - co. Brown - (1)

3745 - *Stictostachys racemifera* L. W. M. (1)
fls. pale yellow

3746 - APEIBA ASPERA AUBL. TREE -
30 m. (2)

3747 - TREE - 30 m. FRUITS purple - (1)

el Valle - CREST OF CARRO PATITA - 1100 m.
9/28/46 -

3748 - STETHOLEPIS ALBENII STEYERMARK - EPHYTIC
HERB - RESINARIA THIS DURANICA - (1)

3749 - VISMIA VIRIDIFLORA DUCHASS. ?? - Small tree,
3 m. (7)

3750 - PEPPEROMIA - Creeping vine on tree trunks
Small Thick leaves - (1)

3751 - EPIPHYTIC BRAZILLIAS - Foliage SWORD-LIKE -
Bracts red-tipped white - Flowers pure
white - Common - (9)

3752 - MAGNOLIA - TREE - 12 m. Undersides of
leaves rich red-brown - NOT SEEN
PREVIOUSLY. (20) (20)

3753 - TERRESTRIAL BRAZILLIAS - Forming thickets -
Foliage SWORD-LIKE - Bracts red-tipped
pete yellow - fls. yellow - very
common - (4)

3754 - PITCAIRNIA - EPIPHYTIC - Bracts pink - (1)

3755 - PITCAIRNIA - TERRESTRIAL - 3 m. TALL -
SCAPE VERY SLender - BEARING LONG
slender Rose red - fls. on the
BRANCHES. (1)

Pahmoellis SEE AHO # 3789

3756 - Orellia - TROPICAL - Foliage dark
green - thin, striped silvery grey - Fls.
like miniature Sobralias - pale yellow ①

3757 - Chusia - stout epiphytic branchlet
SHRUB - 3 m. Fls. white - ⑤

3758 - Rauvolfia - 1 1/2 m. Fruits red -

3759 - Calathea - leaves green white -
Fls. blue - Fls. pale yellow - ①

3760 - ERICACEAE - Epiphytic SHRUB - 75cm.
Flowers pendant on a long thread-like
stem.

3761 - MELASTOMACEAE - stout tree - 10 m. thick
50 cm. diam. Fls. pale pink. Specie ⑩

3762 - DENDROPHAX - tree - 12 m. Fls. green - ④

NUEVA GORRONA - O-M- 10/5/46

3763 - Jacquinia pentamerae Lourde - SHrub -
2-3 m. Fls. deep orange - fragrant -
very common

3764 - Solanum SEAFORTHIANUM ANDR. - VINE -
Fls. blue - Fruits red - ①

3765 - ANEMOPAEUMA ORBICULARE (Jacq.) DC.
Shrub VINE - Fls. yellow - common - ⑨

notes copied + sent
Note's copied & ~~sent~~
Sent

CERRO TRINIDAD - PANAMA PROVINCE - 800 - 1000 m.
OCT. 20, 1946 (Also SEE NOTES)

3766 - *Peperomia* - on moist boulders in deep
shade - (6)

3767 - *UTRICULARIA* - ON wet rock faces of main
peak - Flowers pale blue with yellow
blotch at base of labellum - TRAPS
very large in relation to size of
plant - like a miniature *U. ENNEASI* - (1)

3768 - *Erythroxylum* sp. TERRAESTRIS, FORMING SMALL
COPRIES IN HEAVY FOREST - BRANCHES white,
FLS. cream white - (4)

3769 - *Centropogon STRUMULOSUS* Mesh - much branched
trellis shrub - or woody herb - 3 m. FLS.
pink - (6)

3770 - ORELLIO - FL. tan - EPIDENDRUM? - (3)

3771 - TREE - 5 m. FRUITS yellow - (6)

3772 - *EPiphyllum* - giant discs to several HUNDRED
FEET in diameter - in trees or on rocks - flowers
NOCTURNAL - very large - outer petals pinkish
tan - inner petals white - (1)

3773 - TREE - 6 m. FRUITS Rose pink - RUBIACEAE (6)

3774 - CYPARIS - woody herb - 75 cm. ROOTS purple -
FRUITS BROWN BLUE - (1)

3775 - *Siphonocladus DENDROIDES* (HBK.) DC.

woody herb - FLS. pale pink - on
rock faces or moist peat - (4)

Region North of El Valle - 1000 m. 10/27/46
(Fls. in coll. of Graham Fairchild)

3776 - *Oncidium charrae* Schlechter.

Pseudobulbs slender - sometimes spotted black -
becoming longitudinally ridged with age. Sepals
thin - petals light brown - floral and labellum
lobes of lip yellow - basal $\frac{1}{2}$ below ^{callus} calyx
brown - Callus chestnut - white, spots
light brown - A smooth fl. form.

Cerro Padiita - el Valle - 1100 m. 10/27/46

3777 - *Eurymania musaica* (Lindau) Mez -
Plants with broad alternating bands
of black & purple - scaly rhizome
orange - fls. pure white.

3778 - *Centrochilus* - NOT *C. linearis* -
large terrestrial plants - flowers deep
red-brown - (see pickle)

3779 - *Maxillaria fulgens* (Roth. f.) L. Williams.
S. & P. blood red - lip bright yellow

3780 - *Epidendrum* - flowers pale bluish yellow -
slender pseudobulbs present at first but
they disappear in dry soil - keys out to
E. pyramidalis in some Epidendrums, which
it is NOT - probably new - check -
(see pickle) -

3781 - erect - vase-like very tank bromeliads -
common in zones of tertiary ridge - some
on tide & rock faces - coppery green

3782 - ERICACEAE - SPHYROSPERMUM? - Creeping
woody plants - epiphytic - Flowers pendant.
purple - Fruits green white - (see pickle) ③

3783 - ORCHID - TERRESTRIAL - AGREES FAIRLY WELL WITH
THE SPECIMEN OF EPIPHYTODES SECUNDA ANDERSON IN
MY HERBARIUM - ①

3784 - VOYRIA ATHANIUS STEUERNBERG - Epiphytic
in dense shrub - Fls. Rose pink - ①

3785 - Keys out to Epidendrum ciliopetalum Raffl. &
Identical excepting for color with plant identified
by Williams as E. SCHUMANNIANUM Degener &
Petals pale green - lip pure white - Another
identical specimen seen in Walter Cope's
collection from Carbo Caupana - ①

3786 - RUBIACEAE ^{COCOCCYPSEUM} HIRSUTUM BAIRD.
Creeping herb - in Hirsutum classed
Fruits bright blue - conspicuous - Fls. blue
? - (POISONOUS) (TRIPHORA) ⑥

3787 - PALMORCHIS? - NOT IN FLORA - leaves
striped silvery grey - Fls. cream yellow -
lip striped downward - (see pickle) TERRESTRIAL ①
SEE ALSO NO. 3756 -

3788 - Acanthaceae - Shrub - 1 m. Fls. pink - ①

Hills south of El Valle - 700m. 10/27/40

3789 - FICUS VELutina Willd. - SPREADING TREE -
20 m. (I have two Ficus specimens in the
herbarium which have both been determined as
F. velutina - They are nearly identical in every way -
THIN BUT FRUITS, WHICH ARE VERY DISTINCT,
SEE NOS. 1637 AND 2525 - THE LAST OF WHICH
AGREE ENTIRELY WITH THE PRESENT SPECIMENS - ⑤

3790 - *Sobralia laevigata* - RCHB. F. - on steep
volcanic side BANKS - S. & P. pale yellow
lip white, with Ovule - yellow inner
throat - Hairs on column yellow - C
(SEE columns in Pickle)

VICINITY OF CARRO JAFÉ - PANTANAL PROVINCE ^{ft.} 2500.
(Flowers in collection of MR. ROBERT LOVES - BALDWIN, C. 2
10/28/46)

3791 - *Eulophia*? - TERRESTRIAL - Lvs. narrow elliptic-like
foliage - slender basal pseudo-bulb - Slender Raceme
of 6-8 fleshy flowers. S. & P. pale green.
lip white, with transverse purple stripes.
SEE ALSO NO. 3562 - (Pickle only) ① C

Look up *Eulophia filicoides* -

SEE ALSO Otosyphis Ames ORCH. FASC. VII p. 58
West Indies - SEE *Cypripedium cristatum*!
Ames. ORCH. FASC. VII p. 62

Cerro Parita - Ed Valle - 1100 m. 10/27/46

3792 - *Maxillaria Reporta* L. WMS. ④
SEE plate Amer. Acad. Soc. Bull. Feb. 1, 1942

3793 - *Phalaenopsis* - (*Masdevallia*??) Epiphytic -
flowers lavender (Pickle only) - - - ①

3794 - GENTIANACEAE - Sympodial - Fls. deep yellow C
(Pickle only)

3795 - *Leptinotis*? - Sympodial - Hairs -
(Pickle only) ①

3796 - *Masdevallia* - NOT in Flora - Smaller
flowers flower in pickle - ①

~~3797~~- ORELLA - fls. white - epiphytic -
3797 (pickle only) (1)

ISOCHILUS - SEE Fl. VENE. Orell. Pl. 13

NUEVA GUARANIA - O. M. Paraná Province 10/28/46
3798 -

~~3798~~ - Acanthococcus pentagonalis (L.) Britt. & Rose - (1)
Fls. white - nocturnal - in thickets above
red brackets - common -

Cerro Padilla - El Valle de Anton - 1100 m. 10/27/46

3799

~~3799~~ - Epiphytic bromeliad - scape branched pale green
throughout - tank leaves green - bases
filled with transparent jelly - (1)

El Valle - Rich to headwaters of Rio Santa Ana
900 m. Nov. 10, 1946 - collected by Darby Dugay

~~3800~~ ³⁸⁰⁰ - CYCNOCHES - very stout plants, pseudo -
bulbs up to 7 cm. in diameter & 30 cm.
in height - average about 4 cm. diam. & 18 cm.
tall - bearing branched - plicate leaves covering the
entire bulb - very sparingly veined dark green
towards the basal clasping portion - upper
3-4 leaf axils bearing clusters of pistilate
inflorescences, sometimes with the addition
of a pair of the staminate form. Pistilate
flowers fleshy - segments & petals yellowish
green obscurely varved darker green - lip creamish
yellow - shading to green on the pointed tip.
Narrow band - ciliolate chart dull brown - (continued)

3800 - (CONTINUED) Flowers about greenish
yellow - with brown markings to the segments.

3800

Stamine flowers normally prostrate in a low
pendulous chain from the jaw-like seat spikes.
Sepals & petals pale yellowish green - obscurely
veined darker green - lip white with processes
terminating in lateral marginal teeth
processes. Base of lip under column with
a open blotch & two erect jaw-like
processes - upper sepal - petals & column
minutely spotted red - (see picke)

VICINITY OF DAVID - CHIRIQUI PROVINCE - 100 m.
(Plants flowered in TAMBOA Nov. 12, 1946)

3801

3801 - *Cattleya Skinneri* - Sepals & petals like (R.M.) - only
partially opening - lip entirely rolled about the column -
considerably larger in size - apex of lip when opened
for inspection shows purple shading thence yellow pink
to basal half under column, which is MINTH - ②
(see picke)

el valle - CASCO PATERA - 1100 m. -

(Flowered in TAMBOA - Nov. 18, 1946)

3802

3802 - *SPIRANTHE斯 NAUARRENSIS* (AMES) L. WMS. TERRIMINH -
in heavy shade - scape base coral red - upper
sepal zinc orange - lower sepals, petals & lip
about orange buff. (see picke) ①

Pacific lowlands - exact locality unknown

(Plants purchased from collector - Flowered TAMBOA Nov. 12, 1946)

3803

3803 - *Cattleya Skinneri* - S & P. NOT fully expanded - lip entirely
rolled over column - frontal lobe of lip yellow purple -
shading to nearly pure white in central inner throat -

~~3803~~ - (continued) BABY $\frac{1}{3}$ INCH COLONIES very NEAR
BORDEAUX - ①

3803

El Valle - NORTH - 1000 m. (lower elev. time) 11/16/46

3804

3804 - *Brassia Athenaei* - LINNÆUS. S. & P. olive OCHER - SWARMS
TO CINNAMON BROWN AT THE BASE - Petals with a smooth
basal triangular base yellow spot. lip BROWN
yellow with a narrow band of irregular mottled
brown spots below OLEAST - OLEAST white, with
a deep longitudinal clasp which is colored STRONGLY
yellow. Anther cap wax yellow - with a mottled
brown base - column white, with two lateral lobes
of mottled brown - FRAGRANT - (see pickle) ①

3805

3805 - Small tree - 5m. FRUIT RED - ③

3806

3806 - *Aroidia Pittieri* MER - Small tree - in Heavy Forest
3m. FR. pink - in pendulous panicles - flowers yellow -
FRUIT BRILLIANT RED - ③

3807

3807 - TREE - TEN meters - FRUIT yellow ②

3808

3808 - *Phærothallis* - NEAR P. Rawleii, BUT DIFFERENT VERY
CONSIDERABLY in the FORM OF THE PETALS. Flowers widely
open purple - SEPARATE HIRSUTE - PLANTS VARIABLE in
SIZE & LEAF SHAPE - Flower clusters in variously
CARRIED ON UNDERSIDE OF LEAF - (see pickle) ⑦

3809

3809 - *Oncidium CRISTA-BALDI* - RABE, F. - (pickle only) ①

3810

3810 - *Phærothallis ROTUNDATA* SCHWEINF. - UNDERSIDES OF LEAVES often
purple - SEPARATE Rose Red - TIPPS WAX yellow - Petals pale
yellow - TIPPS pale brown - HIRSUTE - lip pale yellow at
base - SWARMS to Rose Red - Wax yellow - margins of S. & P.
densely minute hirsute - (see pickle) ①

WACKLEI SCHLR.

3811 - *Scaphyglottis* - ^{WACKLEI} - 3 sp. white - lip white, with faint lateral purple lines - column purple - Pollinia 4 - (see picke) ①

3812 - *Isochilus* - SEPAHS purple - Ovary to cream yellow
AT THE RIPS - PETALS greenish yellow - translucent -
LIP TRANSLUCENT - greenish yellow - Pollinia 4 - ② (see picke)

3813 - *Maxillaria* - VARIAGA - BATEM. - 3 sp. pale greenish yellow - inner lip maroon with greenish yellow margin to the throat lobe - (see picke) ③

3814 - *Pleurothallis* - NEAR P. RUSCIFOLIA R. BR. SEPAHS white -
PETALS pale yellow - lip yellow - (see picke) ④

3815 - *Pleurothallis COBRAE FORMIS* L. WMS. - upper sepal pale
TRANSLUCENT green - heavily spotted maroon - lower sepal
red - with broad ^{LATERAL} central pale green band - & isolated ^{maroon} ~~white~~
blotches under lip - PETALS MAROON - THE MARGINS ~~white~~
lip maroon - column maroon - (see picke) ⑤

3816 - *Pleurothallis* - PTEROCARPA L. WMS. Fls. purple - (see picke) ⑥

3817 - *Maxillaria ENDRESII* VAR. ANASTISSEGMENTA (A. G. S.) SCHWEIN
OUTER SURFACES OF S. & P. white - INNER SURFACES OF
SEPAHS ~~black~~ yellow shading to white at base -
inner petals white, inner lip bright yellow, with
white margin to the dorsal lobe. INNER $\frac{1}{3}$ below
column white, STRIPED ^{RICH} red - brown - Column rich
red brown - Apical $\frac{1}{3}$ white - ANTERIOR CAP red ⑦ (see picke)

el Valle - Upper Rio Tabor - 650 m. 11/16/46

3818 - TREE - 25 m. dum's SQUARE TREE - (4)
QUARARIBEA aff. Platynychia Pitt. & S. 5 m.

3819 - INDA - SMALL TREE - 4 m. FLs. white.
Fairly common in roadside thickets - (5)

Region South of El Valle - Rio Mata Atlantico
200 m. 11/16/46

3820 - Blatia - ^{TUBEROSA (L.) ANDS} (see jicke) (2)

VICINITY OF JUN JIRI - PANTAN PROVINCE - 50 m. 11/12/46
(Flowers in Paolo mixed in collection of water Cope)

3821 - MAXILLARIA - ^{CAMPIDIUM} S. & P. pure white - lip pink yellow -
MARRIED WHITE, WITH TRANSVERSE BARS OF RED-BROWN -
RED-BLUE BLOCH AT BASE OF COLUMN - Flowers ①
usually produced in a single pack - (see jicke) (C)

3822

3822 - MAXILLARIA - S. & P. CREAM - lip very pale
yellow - 3 pairs of flowers produced simultaneously
(see jicke) ①

Rio NAVARRO - FORESTS ABOVE OROSÍ - COSTA RICA
5000 FT. - Flowers in the collection of MR. C.H. LANKESTER
LAS CONCAVAS - CARMADÓ - COSTA RICA - 11/26/46

3823 - *Phragmipedium vranichii Rolfe* -
3824 - *Phragmipedium cocoritoense* ?? - Ref. 5 ?? -
3825 - *DICHAEA Ciliolatae* Rolfe
3826 - *SCAPHOSEPHALUM ANCHORIFORME* Rchb.F.
3827 - *Phragmipedium* sp. possibly NEW -
3828 - *STATICE CASCAJENSIS* Wurd. near *S. laevigatum*
3829 - *PESCATURA CARINA* - very large flowered perianth -
3830 - *Epidendrum* near *E. parviflorum*
3831 - *Oncidium pauciflorum* Ames - Bulbs & leaves as *oncidium*.
Olfertiana Schlecht.
3832 - *Lochmaea lundbergii* ?? -
3833 - *Phragmipedium* sp. fls. yellow
3834 - *Phragmipedium gelidum* -
3835 - *Sisyrinchium Hymenoides*
3836 - *Sisyrinchium leucanthemum* (Phragmipedium?)
3837 - *Sobralia* - dark flowers - color like purple
3838 - *Oncidium* var. *concolor* - fls. white
3839 - *Oncidium cheirophorum* -
3840 - *Physosiphon* sp.
3841 - *Phragmipedium* Staudtii

VICINITY OF LAS CONCAVAS - CARMADÓ - COSTA RICA
Flowers in the collection of MR. C.H. LANKESTER
11/26/46

3842 - *Lycaste laevigata* -
3843 - *Epidendrum crinitum* Rchb.F. (ays out to ^{the} sp.)
3844 - *Oncidium granulosum* -
3845 - *Legrandia turriforme* (see Illus. NBBSC. Oct.)
3846 - *Epidendrum brassavolae*
3847 - *Lycaste brauijiana*
3848 - *Epidendrum vitiforme* -

Region above Empalme - 6000 ft. Costa Rica
Flowers in the collection of C. H. Lankester
Las Concepas - Cartago - 11/26/46

3849 - Daphnites - flowers on stems - may be new.

Vicinity of ESTRELLA - 5000 ft. Costa Rica
Flowers in the collection of Mr. C. H. Lankester
Las Concepas - Cartago - Costa Rica 11/26/46

3850 - Trichocentrum PFAVI -

3851 - MAXILLARIA COCAINUM - fls. orange -

3852 - REFEOSTENIA ESTRELLENSIS - this should be proved -

Vicinity of CARILLO - 1000 ft. Costa Rica
Flowers at Las Concepas - Collection of Mr. C.H.
Lankester - 11/26/46

3853 - Cryptophractus - fls. creamy white -

Vicinity of OROSÍ - Costa Rica - 4500 ft.
11/26/46

Flowers in the collection of Mr. C.H. Lankester
Las Concepas -

3854 - RESTYPIA LANKESTERI - leaves -

Pacific coast lowlands - Costa Rica

Flowers at Las Concepas - Mr. C.H. Lankester
11/26/46

3855 - Laxmannia RHOEBOIDES -

3856 - Phragmipedium longiscindae - fls. yellow

OAK FOREST MONS. SAN MARCOS HILLCWAY
TO ST. THERESA - 7000 FT. FLOWERS AT 248
CONCAVES IN COH. MA. C. H. DANKERTER 11/26/46

3857 - Maxillaria sp. fls. Rose pink - common

VICINITY OF CHACHI - RIVER VALLEY - ^{Costa Rica} COSTA RICA
4000 FT. FLOWERS AT 248 CONCAVES - COH.
MA. C. H. DANKERTER - 11/26/46

3858 - Pleurothallis scandens - fls. purple -

3859 - Gastrochilus costaricensis -

OAKWOOD - VICINITY OF MRS. RIOS - 6000 FT. ^{Costa Rica} COSTA RICA
FLOWERS AT 248 CONCAVES - COH. MA. C. H. DANKERTER
11/26/46

3860 - Masdevallia cornuta

3861 - Miltonia ENDRESII

3862 - Masdevallia sp. fls. yellow

3863 - Pleurothallis sp. fls. purple -

3864 - maxillaria sp.

3865 - Scaphyglottis sp.

CERRO UYUCA - DEPARTAMENTO DE MORAZAN - ^{Honduras} Honduras
6000 FT. CLOUD FOREST - WITH PAUL C. STANLEY
& DAVID O'WILLIAMS - 12/5/46

3866 - Epidendrum sp. fls. green - (see picke) ①

3867 - Epidendrum sp. fls. greenish yellow - (see picke) ①

3868 - Repophyllum alpinum? fls. Rose pink - common
(see picke) ②

3869 - *Pleurothallis* - Fls. pale yellow (see picke)

~~3870~~³⁸⁷⁶ *Odonrodesum polystachys* - ON OAKS - 5000 ft.
Fls. white - (see picke)

PEÑA BLANCA - Headwaters of Rio Lindo - DEPARTAMENTO
DE YORO - HONDURAS - DEC. 10, 1946 - with MARK
TRAPTON -

3871 *Pyramidium* Hook.

~~3871~~ *Epipedium*? - Sp. tan - lip white, with pointed lobe
mid lobe - CREEPING HABIT - common - (see picke)

~~3872~~³⁸⁷² *Pleurothallis* - Fls. tan - Common - (see picke)

~~3873~~³⁸⁷³ *Thlaspidorchis Simula* - Fls. tan - heavily yellow
red - brown - (see picke) - common

~~3874~~³⁸⁷⁴ *Maxillaria Thlaspidorchis* - Sp. p. yellow - lip
red - brown - common - (see picke)

~~3875~~³⁸⁷⁵ *Pleurothallis* - probably mixed with no. 3872 -
(see picke) Fls. tan - common -

~~3876~~³⁸⁷⁶ *Pleurothallis* ? - Fls. yellow - (see picke) tan -
Boottia (Lindb.) Lewins (check)

~~3877~~³⁸⁷⁷ *Epipedium* ~~flavum~~ - Fls. straw yellow -
(see picke) very common -

~~3878~~³⁸⁷⁸ *Epipedium* - with NOT dug out in trees
Epipedium - " Sp. p. tan - lip pinkish red -
undersurfaces of foliage purple - common -
(see picke -)

~~3879~~³⁸⁷⁹ *MAXILLARIA* - Sp. p. cream white - lip bright
orange - (see picke)

3880 - *Tillandsia* - Epiphytic -

3881 - *Tillandsia* - Epiphytic -

Cerro UYUCA - Dpto MURILLO DE MORENO - HONDURAS

6000 ft. Cloud Forest - with Paul C. Standley & Louis O. Williams -
Date: 12/5/46

3882 - DESMIDACEAE - Shrub - 1 m. Fl. scarlet - (4)

3883 - MYRSINACEAE - Shrub - 2 m. Fl. pale pink - (2)

Rio YEGUADE - vicinity of CIUDAD, about 800^m
Dpto MURILLO OR POTOSI - HONDURAS - 12/4/46 -
with Paul C. Standley & Louis O. Williams -

3884 - COMOSIFOLIAE - Herb - fl. white - (1)

3885 - Composite - woody Herb - 2 m. - (1)

3886 - DAHLIA PROLIFERA - (2)

3887 - PARROPS - Tree - 20 m. - (3)

3888 - METASTOMACEAE - Shrub - 1½ m. - (2)

3889 - SARTORIA TAILONIAE Standl. - woody
VINE - (3)

3890 - LAVAR - Herb - fl. orange - common in
pastures - (1)

3891 - LAVAR - Herb - fl. yellow - common - (1)

3892 - EUPHORBIACEAE - woody Herb - (1)

3893 - LAVAR - Herb - fl. orange - common - (2)

3894 - MINIERA - woody Herb - 2 m. Fl. pink -
common - (3)

3895 - TURNERAE - Herb - fl. orange - common - (2)

3896 - ASTER SPINOSUS L. - woody Herb - on rocks
in stream courses - fl. white with yellow
centres - common - (2)

Cheswick
Huntington,
Pa. Opera.

Cerro UYUCA - Departamento de Morazan - Honduras -
5000 FT. Pine - oak Clasinos - 12/5/46 - with
DR. Frank C. Standley & Louis O. Williams -

3897 - *Distylium Honduras* Standl. & Walker.

TREES - 15 m. det. Standley -

(2)

3898 - *Woolseyella Honduras* Harv. - 1/2 m. FL. purple -

(3)

3899 - *Melastomaceae* - woody Herb - 1/2 m. fls. pink -

(1)

3900 - *Pinnaculata crenulata* - fls. white -

(1)

3901 - *Cratyllea* - Herb - 1 m.

(1)

3902 - *Linum* - fls. yellow -

(1)

3903 - *Valeriana Sordifolia* -

(2)

3904 - Composite - woody Herb - 1/2 m. fls. yellow -

(2)

3905 - TREE - 20 m. 6000 FT. Clove forest -

(2)

3906 - Composite - woody Herb - 2 m. fls. white -

(1)

3907 - *Salvia* - fls. blue - common -

(3)

3908 - *Salvia* - fls. rose purple -

(3)

3909 - *Salvia* - fls. red -

(1)

3910 - *Cestrum aurantiacum* - shrub - 1/2 m.,
fls. orange - fls. white - common -

(2)

3911 - *Salvia* - fls. pale lavender -

(2)

3912 - *Eupatorium* - woody Herb - 2 m. fls.,
pink -

(4)

Rio TABASARA - Veraguas Province - Panama - 100 m.
Plants flowering in Panama 12/20/46

3913 - *Cycnoches ventricosum* - male flower -
(See picke) on plant about 8" high - over
10 flowers - small size of flower behind
10 or 12 corollaries with size of plant -

(1)

3914 - *Cycnoches ventricosum* - male flowers -

Flowers not much in size than 3913, but
other wise identical (see picke) Plant no. 1

(1)

3915 - CYCNOCHES VANDICOSUM - Hermaphroditic Flowers
(see pickle) Plant. No. 2

EL VALLE DE ANTÓN - 600 M.

Plant flowers in AMBOA 12/20/46

3916 - CATTLEYA SECCA - (see pickle)

3917 - EPIDENDRUM CONSERVATUM ROLFE - (see pickle)

VICINITY OF LA PINTADA - COCA PROVINCE - 150 m.

Plant flowers in AMBOA 12/20/46

3918 - ORCHIDAEA AQUILIANUM - (see pickle)

3919 - EPIDENDRUM STANhopeanum - (see pickle)

EL VALLE DE ANTÓN - 600 M. COCA PROVINCE

Flowers at AMBOA 12/26/46

3920 - ORNITHOAGALUS - S. & J. white (see pickle)

Lip skin - COCHLEARIFERUS C. L'Huillier

RATION NORTH OF EL VALLE - lower on mountain

1000 m. Flowers at AMBOA 12/26/46

3921 - MAXILLARIA ALBENII L. Vives. Fl. pale yellow - (see pickle)

3922 - EPIDENDRUM CRINITIFLORUM RCHB. F. (see pickle)

3923 - Pleurothallis H.F. S. Powellii - (see pickle)

3924 - EPIDENDRUM NOCTURNUM - very striking
VARIATION from normal - color of petals as
new sub - sp. Polka dots purple on upper
surfaces -

el valle - Floor - 600 m.
Flowered at Tambor - 12/26/46

3925 - *Epidendrum leechioides* SCHLR.
Pls. green - (see picke) TORNINA
TAN with ACC- (5)

Vicinity of Tambor, C. Z. 12/31/46

3926 - *NOTYLIA panthea* Rchb. F. (see picke) (C)
Sepals pale green - petals near white, with
two minute orange Cinnab. Spots - lip
pure white

Rio Lindo - Honduras - Flowered at Tambor 1/5/47

3927 - *Scaphybotis* - S & P. greenish white - lip white -
column tinted purple (see picke) (1)

3928 - *Hexaodesmia* (*Scaphybotis*?) S & P. pale green - obviously
striped greenish tan - lip white, with a broad pale
yellow median stripe - anther cap purple -
(see picke) (2)

Vicinity of El Tambor - Honduras - Flowered at
Tambor 1/5/47

3929 - *Cattleya whittemorei* - Sepals bright orange - Petals
bright orange with minute red dots - lip bright
orange with red spots. (see picke) (1)

VICINITY OF TONOBON, C. 2. 12/20/46 collected by
Dorothy O. Akbar.

3930 - PASSIFLORA SEELEMANI WISCH. Fls. blue - ③

3931 - Lawne - woody liana - Fls. pink - ②

Thick to

Cerro Pasita - Hills north of El Valle - ~~1200 m.~~⁸⁰⁰
1/2/47 - with Graham Farrello

3932 - AKAHAWA - Shrub - 1 $\frac{1}{2}$ m. Fls. pink - ④

CREST OF Cerro Pasita - Hills north of El Valle
1200 m 1/2/47 - with Graham Farrello -

3933 - SPIRANTHA NAVARANIA (Aubl.) L. WAG.
(See pickle) ⑤ ⑥

3934 - Salvia - L. P. Myrsin - ①

3935 - SCOPOLIA SPOTTIS - Fls. pale greenish white,
faintly striped lowerpart (see pickle) ④

3936 - CAPITATIS - SHrub - 1 $\frac{1}{2}$ m. BRacts pale pink -
Fls. pale pinkish lavender - ③

3937 - LYCOPODIUM - 2 $\frac{1}{2}$ m. tall - in thin forest ④ ⑥

3938 - STEWARTIA ALBERRII STRYMONIUM - (see pickle) ①

3939 - LOCHMIA - Fls. yellow - (see pickle) ①

3940 - ~~HESPERIA~~ SPIRANTHA FUNKELIANA?
TERRESTRIAL - (see pickle) ①

3941 - MAXIMILIANIA ALBERRII L. WAG. S. & P. pale yellow -
lip reddish tan - ①

3942 - *MAXILLARIA* - ATT. *Ctenophidium monostichum* -
 S + P. wine red - tipped & margins yellow -
 lip pink orange - (See picke) (3)

3943 - *Epidendrum* - ATT. *E. jamaicense* - Fls. green - (2)
 (See picke)

3944 - *Scaphyglottis* - 15' ANT. species - to 3 ft. tall -
 S + P. pale greenish brown - lip white, with
 central yellow median band - (See picke) (3)

3945 - *maxillaria* - S + P. pale pinkish red - lip red-blushed -
 (See picke) (4)

3946 - *maxillaria* Raffene d. Wiss. (Picke only) (1)

3947 - *Prasocinia christiana* ?? - (Picke only) Epiphytic. (1)

3948 - Pleurothallis - probably *P. oxyglossa* Schlechter.
 (Picke only) Fls. white. (1)

3949 - *Polystratia* sp. - Fls. greenish yellow -
 (Picke only) (1)

3950 - Epiphytic orchid - Fls. ^{pale} green - (Picke only)

3951 - Legumes? - fls. tan - (Picke only) (1)

3952 - Pleurothallis (Neobreweria) ? - fls. purple - (Picke only) (1)
 Slab No. 3793

Floor of the valley - 600 m. collected by Dorothy
 Allen - 1/2/46

3953 - *Trichocentrum* - sp. (Picke only) (1)

3954 - *Pleuronothallis mucicata* - SETHIA. Fls. yellow -
common - (pickle only) ① ⑥

Cerro Patita - hills north of el valle - 1200 m.
1/2/47 - with William Fairchild -

3955 - *Melastoma* - stout trees - common to el valle
forest - 3-4 m. Fls. white - ⑥

3956 - *Melastoma* - stout spreading tree - 3-6 m.
Common to el valle forest - Fls. pink -
stamens yellow - ⑤

3957 - *Bromelia* - undersurface of leaves downy -
seize bracts scarlet - Fls. pale yellow - ⑥

3958 - *Bromelia* - terrestrial - flower spikes - 2 m tall.
Flowers red - common - ①

el valle CHIQUITO - 600 m. Flowers in 1947
area in the collection of Mr. Harry Dunn 1/3/4

3959 - *Bromelia* quevedensis - R. & P. -
flowers yellow - dotted - red - brown -
(see pickle) ①

Cerro Chiquito - 800 m. 1/7/47 - with William
Fairchild -

3960 - *Clusi* - tree - 10 m. Fls. pinkish white,
fragrant - ④ ⑦

3961 - *Pleuronothallis* - Fls. red - brown - (see pickle) ①

3962 - ERICACEAE - Giant Buttercup Epiphytic SHrub -
3-4 m. fls. pink - (6)

3963 - PTEROTROCHIS - fls. purple - (see picke) (1)

3964 - Cattleya - Bracts purple - fls. greenish
yellow - 1½ in. (1)

3965 - SHrub - 2 m. fls. dull purple - (2)

3966 - Laeothallis - ? fls. brown - (see picke) (1)

3967 - LYCOPODIUM - Epiphyte - (1)

3968 - MAXILLARIA Athorii L. wwe. S. sp. straw yellow -
lip red-orange - (6)

3969 - PTEROTROCHIS HT. P. COCORITOCEPS - fls. translucent
narrow red-brown - (see picke) (1)

3970 - POOCARPUS Athorii - Thz - 25 m. very common
name reported as "Ah-Pajillo" (6)

3971 - EPIDENDRUM Ritterum Jacq. fls. greenish
yellow - (see picke) (1)

3972 - Giant Money plant - (Aceraceae?) fruits orange (1)

3973 - MAXILLARIA - fls. Thz - (see picke) (2)

3974 - ASCLEPIAS - vire - rel. pale yellow - (2)

3975 - PTEROTROCHIS - S. sp. white - lip white,
frontal lobe purple with central white
spot. further cap purple - (see picke) (1)

3976 - *Cyclanthes* - reported fresh. ①
3977 - *Prescottia* *Staelleyorum* (Sev.) hirschi. reported fresh. ①
3978 - ~~*Hedysarum*~~ - *Aphyllae* - in moist forest - ①
Spiranthes? ①

Rio TABASARA - VERACRUZ Province - 100 m.
Flowered in HONDURAS 1/11/47

3979 - *Cycnoches ventricosus* - male fls.
Produced from plant No. 2 - (See pickle) ①

Cerro PAPITA - HILLS NORTH OF THE VALLE - 1200 m.
Flowered at HONDURAS 1/12/47

3980 - *Scaphyglottis bilineata* (Raffl. f.) Schlecht.
(See pickle) Sp. P. pale pinkish white
columns & petals of lavender - ①

Rio LINDO - HONDURAS -
Flowered in HONDURAS 1/12/47

3981 - *Dicella* - fls. translucent - spotted pale ①
pinkish lavender - ANOTHER OF THESE - (See pickle)

Cerro Chaypant - 800 m. Flowered in HONDURAS
1/12/47

3982 - *Scaphyglottis* - fls. translucent - striped
lavender - See also No. 3935 - (See pickle) ①

3983 - *Epidendrum acrens* - fls. tan (See pickle)
foliar green ①

3984 - *Epidendrum diffusum* - flowers white
with pale green tips to sepals & petals.
(See pickle) ①

El Valle - Floor - 600 m. Flowers at Atmboa
1/14/47

3985 - Mokmooda Trewar - S. & P. yellowish green -
minutely spotted red-brown - lip tan -
becoming very strongly reddish with age -
minutely spotted red-brown (see picke) (1)

Cerro Plantation - vicinity of Summit - C. 2.
Flowered in the collections of Mr. & Mrs. James
Barat, Barab Obispo - C. 2. 1/14/47

3986 - *Oncidium rectinervia* Jeps comata - S. & P. pure
white - lip white, with darker pink veins,
in the inner throat - Ovary white - Stigma
brown - Columns & Anther cap pure white -
strong cinnamon fragrance in the ~~morning~~
morning. (See picke) (1)

El Valle - Floor - 600 m. Flowers at Atmboa
1/14/47 - collected by Dorothy O. Allen

3987 - *Oncidium clarkei* Pittman - (see picke) (1)

Cerro Champa - Rock Face - 800 m. Flowers at
Atmboa - C. 2. 1/14/47 collected by Dorothy Allen

3988 - *Sobralia decora* - (see picke) (1)

3989 - *Trichocentrum* - (Picke only) (1)

El Valle - Rich to Cerro Pintado - 800 - 1000 m.
1/2/47

3990 - *Voyria allenii* - Picke only - (1)

3991 - ORNITHIUM? - (maxillaria) Fls. Red-Brown -
(see pickle) ①

3992 - MAXILLARIA - Pls. pinkish red - dig with
brush roots & thin yellow callus - (see pickle.) ①
Anthers off sometimes attached to tip of labellum.

Rio Tocumans - vicinity of Pteora - 50 m. Flowers
at 1000 ft 7/5/46 - collected by Nathan Trippel -

3993 - CATASETUM VIRIDIFLORUM - (pickle only)
male & female flowers - ①

Rio Mato Achorro - vicinity of El Valle
500 m. Flowers in the collection of Mr. & Mrs.
James Blakely - B&S DB, 5, 10 - c. 2.

3994 - Selenipedium lowii Tschwae - (pickle only) ①

Cerro Yuca - Herbaria - 5000 ft. Pine-Oak
classifications - with Prof. C. Standley and Louis O.
Williams. 12/5/46

3995 - Lupinus - Fls. Blue ③

3996 - Phacelia - vine - Fls. purple - ①

3997 - Hyptis - shrub or woody herb - 1 m. ①

3998 - ASTERACEAE TUNGUANENSIS ①

3999 - OREGONIA - tree - 6 m. ①

4000 - TILLANDSIA STANDLEYANA - scape bracts red -
Fls. dark purple - common on pines - ③

4001 - CATOPSIS - common on pines - ①

4002 - *Tithonia* - BIRDS - $\frac{1}{4}$ or $\frac{1}{2}$ leaves brown -
TANBROWN $\frac{3}{4}$ INCHES - Scape BRANCH RED - Terminal
BRANCH OR IN FLOWERS RED - Flowers
DARK PURPLE - Common on glades - (2)

4003 - *Schizia Dorisiana* STRANDEL - FLs. BRIGHT PINK - (2)

Summit OR

Cerro UYUCA - HONDURAS - 6000 FT. Cloud Forest
12/5/46 - with Prof C. STRANDEL and Louis Williams

4004 - *Mimothropha* - COELIACIA - MIMOTROPHIA
COCLENEAT - FLs. BRIGHT PINK - (2)

4005 - *Pascoaia* STRANDEL - (1)

4006 - *Podocarpus* - Trees to 95 ft. very common - (4)

4007 - *Peperomia* - Epiphytic and terrestrial Herb -
common - QUADRIFOLIA (L.) HBK. (1)

4008 - *Psathyrotes* - TREE - 4 m. (3)

4009 - *Skravaria villosa* - Small tree - 6 m.
FLs. white - (4)

VICINITY OF EL TAPEROCHO - HONDURAS - 2500 FT.

12/7/46 - WITH PROF C. STRANDEL AND LOUIS D. WILLIAMS

4010 - *Hypxis muciniana* Benth. - HERB - 2 m. (2)

4011 - *Craton Popowii* STRANDEL. SHrub - 1 m. (3)

4012 - *Ahvazia Amorphoides* LIEBM. TREE - 6 m. (2)

4013 - *Pisonia interamericana* D. S. M. TREE - 15 m. (2)

4014 - *Euphorbia mexicana* DC. HERB - common - (1)

4015 - *Zinnia elegans* - FLs. Dull Red - common (3)

4016 - *Thrinaxia Calocarpa* STRANDEL. SHrub - 6 m. (2)

4017 - *Ricciastrum* HIRTA L. TREE - 15 m. (1)

4018 - *Ipomoea arborea* - woody shrub - 3 m. FLs. white (2)

4019 - *Rugularia vulgarensis* WELST - TREE - 6 m. (2)

4020 - Tree - 6 m. Flavis rev. (3)

4021 - Aistrolochites - Fls. Brown - Giant woody
liana - Fls. grow out from old woody stems - (1)

* Hoodwicks notes to Hale Scout wooden 2/15/47

VICINITY OF CHI'VA CHI'VA - █ 100 m. 1/15/47
Collected by Graham FAIRFIELD

4022 - Epiborus rev. Schlechtendalii Ames -
(See pickle) FAIRFIELD. (1)

Cerro Chayanta 800 m. 1/15/47 -

4023 - Adonis compacta HBK - Tree - 6 m.
Fls. pink - (4)

4024 - Shrub or Stout Herb - Flwr. note
opp fruit. (1)

4025 - Maxillaria - Sp. p. pale green - tinted lavender -
lip pale green - with median yellow callus -
anther cap sometimes appearing to point
or label was - (see pickle) (1)

4026 - maxillaria - Sp. yellow - lip Rev - Brown -
(see pickle) (1)

4027 - Epiborus rev. Radicans - Summit of Rock
face - (see pickle) (1)

4028 - Epiborus rev. ameae - Fls. brownish yellow. (1)

4029 - Bromeliad - turmania dissitiflora (Andres)
Dr B. Smith - (1)

4030 - Bromeliad - Sette BRITTON & R. B.
white - common - ①

Vicinity of AQUADULCE - 50 m. 1/23/47

PEIRANISIA VELUTINA BRITTON & R. B.

4031 - SHrub - (CASSIA) 11/2 m. Fls. yellow - very
common to tree floors in the wet season - ⑤

CASSIA ERICOIDES

4032 - SCHIZOLEBIUM - TREES - Average 8 meters
but sometimes reaches 15 meters under
favorable circumstances - fls. yellow -
seen only in the open floor strata
to the OCN entrance road - ⑧

Vicinity of CAMPANA - 100 m. 1/21/47

4033 - PachyRRHIZUS ? - woody vine - fls. purple -
very common - ②

4034 - SCHIZOLEBIUM - large trees - 25 m. fls.
yellow - known locally as "Tatio"
seen from BAMBON TO OCHO CAMPANAS -
covering trees of 100 wet precipitation -
often clustered in "mangas" of 8-10 trees - ⑮ ⑯
NOT TO BE CONFUSED WITH NO. 4032

4035 - ~~Hedysarum calycinum~~ (HEDYSARUM CALYCINUM) - woody herb -
~~11 m. fls. pink~~ ⑦

VICINITY OF OCO - 100 m. 1/22/47

4035 - Mimosa Peperomioides - Fls. pink - (2)

4036 - Bauhinia - Small UNARMED tree - 8 m.
leaves - Fls. white - (4)

4037 - Leucaena - tree - 15 m. Fls. white - (7)

4038 - Calycophyllum paniculatum (Vahl) DC.
trees - 20 m. Fls. & bracts white - (4)

4039 - Tounda Aculeata Rupr. ex Forst.
dense spiny clumps - 20 m. common
along stream courses - (8)

4040 - Pectis ~~capitatus~~^{capitatus DC.} Herb - Fls.
yellow - Capitatus - DC. (2)

4041 - Achimenes Herbs - Fls. pink, white - (2)

4042 - Pterolepis pumila (Bougl.) Cogn. Fls. pink. (1)

4043 - Desmodium cajanifolium (HBK) DC.
woody herb - 1 1/2 m. Fls. pink. (1)

4044 - Rhynchanthera mexicana DC. woody
herb - 1 m. Fls. royal purple - (2)

4045 - Mentha - Fls. dove grey - (1)

4046 - Composite - Fls. pale yellow - (1)

4047 - Rossia verticillata HBK - Stout
herb - 1 m. Fls. red - (1)

4048 - Schultesia tuiensis (Aubl.) Muhac.
Fls. pale pink - (1)

4049 - Paspalum latifolium (Roxb.) Roem.
common grass - 8 m. (2)

4050 - Herbs - common in pastures - (3)

4051 - Solanum - Small tree - 3 m. Fls. white - (3)

4052 - Combretum ^{FAGIUSUM HBK} wood of sediment shrub
8 m. Fls. greenish yellow - FRUITS
red-brown - common - (5)

4053 - Manihotesc - tall herb - 1 m. Fls.
lavender - (2)

4054 - *Catena florifolia* HBK. woody herb -
1/2 m. - Fls. yellow - common - (1)

4055 - *Davallia solida* Presl. scandent shrub -
4 m. (1)

4056 - *Thrinax retusa* - SHrub - or woody herb -
1/2 m. (3)

4057 - *Witheria elongata* Presl - SHrub - 1/2 m.
Fls. white - common - (3)

4058 - *Batrachia unifolia* Lodd.

4059 - *Aeschynomene carthaginica* L.

4060 - SHrub - 2m. Flws red - (3)

4061 - Side - Fls. Buff - common weed - (2)

4062 - *Hymenaea courbaril* L. - TREE - 15 m. (1)

4063 - *Anacardium occidentale* L. Small tree -
Heated tent Readable - common - (1)

4064 - ^{BURSARIA} *Rodgersia Simmondsii* (L.) Rose - small tree
10 m. common - (1)

4065 - *Jatropha curcas* L. SHrub - 3 m. Sterile - (1)

4066 - *Aphelandra* - SHrub - 2m. Fls. pink - (2)

4067 - *Chisipa* - ^{ODORATA STEM.} TREE - 12 m. Fls. pink - common - (5)

4068 - *Mysorensis* - ^{ACISIA REVOLUTA HBK.} TREE - 3 m. (2)

4069 - *Inga* - Spuria H. & B. TREE - 20 m. Fls. white - (3)

4070 - *Arrabidaea candidans* (Ch. C. Rich.) DC.
Liana - Fls. purple - (4)

4071 - *Cochlospermum vitifolium* (Willd.) Spruce. (1)

4072 - *Medicago trifida* (Jacq.) Willd. Atta.
woody vine - Fls. green - (1)

4073 - *Convolvulus* - vine - Fls. lavender - (1)

4074 - *Diphyesa robiniae* Benth. "medano"
common TREE - 6 m. Fls. yellow - (1)

4075 - *Anacardium excelsum* (Berg. & Balf.) Skeels.
TREE - 25 m. STERILE (BARK) THICK (1)

4076 - *Conostephium subcaulatum* - SHrub or
woody herb - 1/2 m. Fls. pink - (1)

4077 - ACANTHACE - HERB - Fls. pink - Common
along streams - (3)

4078 - JACQUEMONTIA PENTANTHA - (Jacq.) Don
Convolvulaceae - fls. white - Common (2)

4079 - SOLANUM, vine - Fls. pale blue - (1)

4080 - IPOMOEA THIBBA L. vine - fls. lavender - (1)

4081 - HOSSYPIUM ^{TRIDENS COCK & HYBRID} ~~TRIDENS~~ - Street
woody herb - 4 m. - fls. ~~pink~~ yellow ^{various} pink (1)

4082 - CROTON FISSILIS Vahl. tree - 15 m. (3)

4083 - TREE - 15 m. (3)

4084 - ACHYRONEURUS - Herb - 1/2 m. fls.
yellow - common weed - (1)

4085 - Composite - woody herb - 2 m. fls. pale
lavender - common - (1)

4086 - ANTROTIUS SPINOSUS L. (1)

4087 - AESCHYNOCELE AFRICANA L. weak herb -
2 m. fls. yellow (1)

4088 - CENTROSEMA PUBESCENS Benth. vine -
fls. lavender - (1)

4089 - SAVIA OCCIDENTALIS Sw. fls. blue
common weed - (1)

4090 - OENOMYS MICKELSONII Willd.
common weed - (1)

4091 - VINE - fls. pale pink - (4)

4092 - DIPPIN HEMISPERICA Jacq. Acanthace
Shrub - up to 5 m. fls. white - (2)

NOTES TO HERB SENT TO
WOODSON 1/31/47

4093 - Laurus SPELLOSA Willd. - tree - 20 m.
common on edges of forests. (1)

4094 - HERPETICA ALATA (L.) RAP. - small tree - 4 m.
fls. yellow - common (2)

4095 - *Loriptea SEEMANII* Rink & Plant. - TREE - 20 m.
Fls. white, common along stream. (1)

3

Rio Nido - Vicinity of Puerto Pilas - Colón prov.
10 m. FEB. 2, 1947

4096 - *Schiniastra* - Formosa dense colonies in shade -
Stout branches - Spikes to $\frac{3}{4}$ m. tall - stems
0-1 m. to 2 m. in length. (3)

4097 - TREE - 25 m. Fls. white - (3)

4098 - Malvaceae - ^{woody} Stems - 3 m. Fls. yellow - Ovary
& fruit bright red - veins of undersides of
leaves bright pink - very showy & handsome. (5) (6)

4099 - TREE - 7 m. Fls. white - (7)

4100 - *Thlaspi PETTET* - Shrub - 2 m. Fls. yellow. (4)

4101 - *Newholmia LOBATA* (L.) R. BR. - woody herbs -
2 m. Fls. yellow - (1)

4102 - *Lasiacis OAXACENSIS* (STRUB.) HITCHK. - Bamboos - (2)

4103 - Palm - Completely decurrent - 12-15 flowers -
Spathe produced at same level between flower
axils - seemingly with single staminate &
pistillate inflorescences - fruit clusters often
very low in the flower axil so as to be
nearly or quite invisible from a short
distance - very common in Harvey Forest. (1) (6)

Juan Mina Plantation - Rio Chamares - Río San Roque
Nombre - 25 m. 2/3/47

4104 - ERYTHRINA STUCA Willd. "Tallito" - TREE -
15 meters - extremely common on flooded land
and islands - Fls. orange - floating mass
islands tend to accumulate in stagnant water
and seedlings of this species take root in the
floating mass, growing very rapidly themselves
to the bottom & others remaining on these permanent
islands -

4105 - CONVOLVULACEAE - Floating aquatic herb in shallow
water along shore - Fls. lavender -

TRICHANTHERA TRIDENTATA (HBK) Humb. & Bonpl.

4106 - TREE - 12 m. Deciduous with落叶性质 placed
in marshy land - flowers pinkish brown -

4107 - CONVOLVULACEAE - VINE - Fls. yellow - Common. (3)

4108 - SAPINDACEAE - woody vine - Fls. white - (2)

4109 - CEPHALEIA TOWERIANA (Aubl.) Vahl. - Shrub -
2 m. Bracts red - (1)

4110 - ROBINEAE - Small tree - 4 m. (2)

4111 - BIXA ORCHARDI L. - TREE - 10 m. (2)

4112 - ACONITACEAE - HERB - 2 m. Fls. purple - (2)

4113 - HELICOTYLIS MURAWAKI FOLIA HBK. - Shrub
3 m. (1)

4114 - FABACEAE - woody plant - fls. pink. (2)

4115 - OPHIANTHUS HIRTELLUS (L.) BEAUV. Common (1)

4116 - FABACEAE - Fls. reddish brown - (1)

4117 - HELICONIA - Bracts bluish yellow -
Fls. yellow - tipped dark areas - 2 m. (1)

4118 - Herb - fls. white - (1)

4119 - woody Herb (2)

4120 - COMPOSITE - tall weedy HERB - fls. lavender (1)

4121 - ERYTHRIDA TRIDENTATA Vahl. fls. blue - (1)

4122 - IRESINE CALOSSA L. - fls. white (1)

4123 - Convolvulaceae - vine - Fls. purple - common. (2)
 4124 - *Pitcairia taurina* (Sweet) R.H.B. common
 AQUATIC - Fls. blue - (1)

4125 - *Riumfetta hispida* A.Rich. woody Herb -
 2 m. common (1)

4126 - Hibiscus - woody Herb - 2 m. Fls. pink. (2)

4127 - *Solanum* - weak - flowering shrub - 1/2 m.
 Fls. blue - (1)

4128 - *Jussiaea nutans* H.B.K. - Flotant
 AQUATIC - Fls. white - very common - (1)

4129 - Cabomba AQUATIC AUBL. common
 AQUATIC - Fls. pink - (1)

4130 - *Hediondilla* - 3 m. BRACTS green - Fls.
 large - red - flowers mostly exserted - (1)

4131 - *Cathartes lutea* (AUBL.) KIRK. Mayer
 3 m. BRACTS brown - Fls. yellow - common (1)

4132 - Date Champa Tiliaceae Linn. BRACTS crimson
 colored - common VINE - (1)

4133 - *Rodricensis* STEVENS KUNTH - Fls.
 pink - very common on citrus - (see pic) (2)

4134 - *Tiliacaria paleisiana* SCHULT.
 very common on citrus - (3)

4135 - *Otopsis nutans* (Sw.) Willd. varif
 common on citrus - (2)

4136 - *Tiliacaria fabricii* Sw. Common on citrus (1)

4137 - woody Herb - 1/2 m. (2)

4138 - *Aphelandra sinclairiana* NEES - Shrub - 3 m.
 BRACTS orange - Fls. blue - common - (2)

4139 - *Polygonum perfoliatum* L. - Flotant
 AQUATIC HERB - common - (1)

4140 - *Chibaclium Surinamense* L. Shrub - 2 m.
 common - (1)

4141 - *Serianthes rhombifolia* R.D.K. - common vine - (1)

4142 - Euphorbiaceae - small tree - $\frac{6}{m}$ Fls. dark
 red - (2)

4143 - Acanthaceae - fls. pink - common - (2)

4144 - Rosaceae - Small tree - 3 m. fls.
yellow - (2)

4145 - Sedum - very common - (2)

4146 - Viscaria virginalis DUCHESNE - Small tree
4 m. fls. green - common - (1)

4147 - Davilla Kunthii ST. Hil. - woody liana -
fls. yellow - common - (1)

4148 - woody liana - fls. brown - (3)

4149 - Fabaceae - woody vine - fls. purple -
very common in brushy places - (2)

4150 - Lasianthus Oaxacensis (Stew.) HITCHCO.

Broadleaf - 4 m. common - (1)

4151 - Clusiaceae Fistula Breitbachii (L.F.) LO DOU
Small tree - 3 m. fls. yellow - (2)

4152 - Bromeliad - common on citrus - (3)

4153 - Coelospermum vitifolium (Willd.) Spreng. (1)

4154 - Nicandra ARENTINA (Sw.) DC. - tree - 12 m.
fls. white - common - (5)

Rio Matuncillo - vicinity of Strand Rock - 25 m.
2/3/47

4155 - Erythrina chama willd. (1)

4156 - Hirzelia Anisodonta L. - shrub - 3 m.
fls. purple - (1)

4157 - Luetkea Steyermarkii RICHARD & PLEWELL - tree
25 m. fls. white - (2)

4158 - Harpephyllum Adatum (Ch.) RAF. - shrub - 2 1/2 m.
fls. yellow - common - (1)

4159 - Tricosidium ELETROKINUM BATMAN ex LEWIS. (1)
very common on loose trees. (see pickle)

4160 - Sideroxylon - 1 m. ~~shrub~~ introduced African wood - (2)

4161 - Hamelia numosa MART. & ROB.
Shrub - 2-3 m. fls. orange - few - (1)

4162 - TREE - Leucose - 12 m. (2)
 4163 - CAROCOSPERMUM BIMODIFLORUM SWARTZ.
 VINE - fls. white - (1)
 4164 - TREE - 15 m. fls. white - (2)
 4165 - TRIUMPHEPHYLLA - VINE - fls. yellow - (1)
 4166 - CYCLOSTROPHIAQUINOCOTYLIS (Ch) Miers
 woody vine - fls. pink - (1)

CERRO PACHE - HILLS NORTH OF THE VALLE DE GUATACA
 1000 - 1200 m. 2/7/47 with Dorothy Allen

4167 - EPIPOXYDIA - fls. green - (1)
 4168 - CAPNIATIS JONICEA Sw. Shrub or Shrublet
 Tree - 3 m. Blts. opp. lvs. - fls. white - (1)
 4169 - HYMENOPHYLLUM FUCOIDES Sw. Filmy fern
 Common - (1)
 4170 - POLYTHALLACE - fls. white - Common - (4)
 4171 - TRICHTOMIADS - Common - (2)
 4172 - MAXILLARIA - Sepals & petals white
 lip pinkish brown on under surface, except that
 for the floral hair which is chalice yellow.
 yellow callus. (see picke) (1)
 4173 - TREE FERN - very stout short trunk
 3 m. 10" diam. like COSTA RICAN PTERO
 DE MURO - Common - (1)
 4174 - BECONIA ALEXANDRI STRAB. fls. dark pink -
 Common - (1)
 4175 - MAXILLARIA DENDROCARP - TREE - 3-6 m. in subtropical
 FOREST - 1200 m. fls. white - very fragrant. (4)
 4176 - KRASS - INFREQUENT - (1)
 4177 - MAXILLARIA - S. & P. Red - LEAVES ALMOST -
 lip red - margins white. Callus yellow
 (see picke) (2)
 4178 - EPYPHYTIC SHRUB - 1 m. fls. red - (2)

4179 - VERNONIA - SCHOMBURG SHAWBS - 3 m., Fls.

WHITE -

(1)

4180 - BURNUSTRARIA AEROBIA BLOTH (E. WILSON) E. WILSON,
EPHYTIC HAB. - 3/4 m., Fls., Brown -

(1)

4181 - PSYCHOTRIA PEPPEROMIATE STANDL. EPHYTIC
SHAWB - FRUITS RED - COMMON -

(1)

4182 - TILMOSIA DUMASCASTERIS STANDL.

(1)

4183 - COLVINEA RUBRA MORTON - CALyx RED - with
dark serrate margins - Undersides of
leaves white RED - Flowers brilliant yellow -

(1)

4184 - ACANTHACEA ALLENII L. B. SMITH - Edge plants
Brilliant Pink - Fls. very numerous - Common -

(1)

4185 - EPIDENDRUM CRASSIATTIVUM PIT. S. & P. TAN
possibly BIOTELLUS RED-Brown - Lip pale yellow -
Flowers point downward -

(1)

4186 - LOURTEA BOUCARDII H. B. SMITH - Edge
Places striped Red & brown - Fls. yellow -

(1)

4187 - LISIMACHIA sp. SHAWB - 3 m. Fls. yellow -
Tipped green -

(2)

4188 - ANTHURIUM sp. - EPHYTIC -

(1)

4189 - PLATROTHALLIA - Fls. Maroon - (see picke)

(1)

4190 - PITCHERIA - TERRESTRIAL - Fls. Red - Common -

(1)

4191 - TREE - 3 m. IN ETHER FOREST - Fls. WHITE -

(5)

4192 - MAXILLARIA ENDRESSII VAR. MARISTEDELLA -

(1)

4193 - CEIBA ALLENII WOODS. TREE - 20 m. thick
16" diam. Fls. white - Stems yellow -

(3)

4194 - SCHERPPEA - EPHYTIC SHAWB - 1 m. Fls.
WHITE -

(2)

4195 - EUTERPE PANAMensis BURDET 3-4 m.
DWARFED BY WIND - IN ETHER FOREST -

(1)

4196 - ORNITHOCEPHALUS - Sp. P. white - lip dark
green - margins white - (see picke) New 53 (1)

Rio Viejo - vicinity of Puerto Potos - Cordon Morenico
10 mi. Feb. 2, 1947

4197 - *Heliconia Bihamata* L. Common - ①

Juan Mina - Rio Chamas - 25 mi. 2/3/47

4198 - *CORDIA ALBIDORA* (Ruiz & Pavon) ROEM. & SCHLETT.
TREES - 15 m. FLs. white - Common - ③

4199 - *HELICONIA Bihamata* L. Common - ①

4200 - *CATATHA LUTEA* (Aubl.) D. F. W. Margar.

3 m. BRACKETS Brown - FLs. yellow - unperfumed
fr. leaves white - Common - ①

4201 - *OCHROCARPUS LINCOLNII* Rawle - TREE - 15 m.
FLs. white - Common - ①

VICINITY OF Beliceo - Sea level - 2/7/47 -

4202 - *Bixa Obovata* - woody tree - flowerless without
leaves - very common in low forest floor
timber - FLs. pink - ④

4203 - *THEOBROMA GRANDIFOLIA* (L.) HEMSL. TREES - 20 m.
common to rocky hills east of Beliceo -
FLs. pink - ②

L. Mopan - floor - 600 m. 2/7/47

4204 - *ANTOCARDIUM EXCELSUM* (Berg. & Salis) Steyerl.
TREES - 25 m. common along stream - ①

4205 - *Phaeothelium MURICATUM* Benth. FLs. yellow -
very common - ①

4206 - *HUSTAVIA* - TREE - 20 m. trunk 12" diam.
FLs. lavender - ①

Hills South of El Valle - 700 m. 2/7/47 -

4207 - *Scaphyglottis* - Fls. white - common - (2)

4208 - *Epidendrum Ibaguense* HBK. - Common on roadside Banks in grass - (see picture) (2)

4209 - *Dyssodia montana* (Benth.) Bailey - Fls. orange - Common Shrubby Herb - (1)

4210 - *Lisimachia corymbosa* Perkins - Shrub - 2 m. Fls. yellow - (1)

Hills & clearings north of El Valle - 700-800 m.
2/7/47

4211 - evergreen Caffroid Heaven Raffb. f. - Fls. yellow
common - (1)

4212 - woody? woody Herb - 1 m. Fls. white -
Common in clearings - (3)

4213 - *Pithecellobium* - Shrub - 3-4 m. Common along
roads - Common in hillside clearings - (2)

4214 - woody Herb - 3 m. Fls. yellow - (1)

4215 - Beavonit thurifera A. DC. ? woody Herb -
to 2 1/2 m. Fls. very pale pink - (3)

4216 - *Begonia Squalosa* G. DC. Fls. white - (1)

4217 - *Centropogon Nutans* Phil. & Oerst.
Scrubby Shrub - 3 m. Fls. pink - (1)

4218 - *Myrsinopsis yucatanensis* (Pursh.) Kuntze.
Small tree - 4 m. Common in second growth
along roads - Fls. white - (1)

4219 - *Acalypha* - Shrub - 3 m. (2)

4220 - *Iresine celosia* L. woody Herb - 2 m.
Fls. white - (1)

El Valle - Flore - with van Tieghem - 600 m. 2/7/47

4221 - SIDA? - woody herb - 3 m. Fls. yellow - (4)

4222 - COCONUTA TRANDIFOLIA var. NORWICHIS (KUNZE) -
mohawke - TREE - 6 m. Fls. blue - (1)

4223 - MACKENZIEA VULGARIS (Benth.) WOOD.
TREE - 20 m. Fls. pink - also on Cerro
Champán - (1)

4224 - woody Herb - 2 m. Fls. blue - common - (2)

4225 - MONOLEPSIS ALHEMI wood. - woody vine,
fragrant flower thicks - Fls. blue - (1)

4226 - ACANTHACEAE - woody herb - 1½ m. Fls.
pinkish orange - (1)

4227 - Composite - Bitterroot woody herb - to 3 m.
Fls. yellow - common flower thicks - (4)

4228 - SYNECHIUM NOVIFLORUM (L.) WILERTH. Herb -
½ m. Fls. yellow - (1)

4229 - DIVARICATA - woody herb - 2 m. (3)

4230 - ERASSIAS - Scatterant herb - 3 m. (2)

4231 - SIDA - ^{bushy} woody herb - 1 m. Fls. yellow -
common (3)

4232 - CROTON - SHrub - 2 m. Fls. white - (3)

4233 - ORNITHOCARPUS COTyledONIFERUS C. STELLARIS P. (1)

4234 - Bushy herb - 2 m. Fls. white - (2)

Cerro Champán - 800 m. Collected by William Fairchild
1/24/47

4235 - MAHOGANIA - Fls. tan - (see pickle) (2)

4236 - PRESCOTTIA OLIVANTHA (Sw.) Lindl. (1)

Cerro Champán - 800 m. Fls. orange 1/6/47

4237 - MAHOGANIA - Same as No. 4235 - (1)

4238 - SPIRANTHE ACROTHIS (V.E. Sm.) COWW.
on Rock Face - (see pickle -) Fls. green
See Yesterday Photo (1)

Cerro Campana - 800 m. Fl. Rambo 2/14/47

4239 - *Epidendrum arachnoides* - J. C. G.

(1)

Vicinity of Santa - Fl. Rambo 2/6/47

4240 - *TRICENIDIUM EBERTONIANUM* BATIM. ex LINCH.
Sepals & petals pale greenish yellow - the
petals striped brown & with round brown spot
at tips. Reversed from tip to lip
yellow - inner lip under column striped
brown - common on large trees in
pastures - see also 4159

(1)

4241 - *Dactylis WEDDEMIERI* (Prill.) L. W. W.
S. & P. brown - lip pinkish brown
edges brown with central yellow callus -
(see picke)

(1)

Vicinity of David - Chiriquí Province - 25 m.
Flowers Fl. Rambo 2/15/47

4242 - *Oncidium stipitatum* LINCH. S. & P. velvety
blotched red - brown - dark brown & lateral
lobes bright yellow - crest heavily spotted
red - brown - lower surface of lip heavily
spotted red - brown - (see picke)

(2)

Vicinity Rio de Jesus - Fl. Rambo 2/15/47

4243 - *Bulbophyllum gracile Rchb's* Rchb's.

(3)

Vicinity Rio de Jesus - Fl. Rambo 2/15/47

4244 - *Aspasia episcopalis* LINCH. -

VICINITY OF ESQUINTLA - GUATEMALA - 100 m. Flowered
in the collection of W. H. H. Fairchild 3/1/47

4245 - *Oncidium cavanillesianum* BATEM. Leaves very
thick - S. & P. white, undulate - Heavily spotted
brown - lip brown with undulate white markings.
Crest & column wings white. (See Pickle) ①

VICINITY OF EL ZUMERANO - Dept. DE MORELOS - 2500 ft.
Flowered BAMBAA 1/28/47

4246 - *Oncidium* aff. *O. Cavanillesii* - S. & P. yellow
heavily spotted light brown - floral & lateral
lobes of lip yellow - callus lighter dotted
red - brown - (see pickle) ①

HILLS SOUTH OF MANAGUA, NICARAGUA - 250 m.
VICINITY OF CASA COLORADA - Flowered BAMBAA
1/28/47

4247 - *Oncidium stipitatum* Lindl. - S. & P. yellow -
spotted red - brown - floral & lateral lobes
of lip bright yellow - Crest heavily
spotted brown - (see pickle) ①

RIO TEPICUECHI - HONDURAS - Between Lake YOJOA &
Si GUATEPEQUE - 500 m. Fl. BAMBAA 1/28/47

4248 - *Oncidium stipitatum* Lindl. S. & P. yellow -
spotted red - brown - lip & lateral lobes bright
yellow - Crest spotted brown - (see pickle) ②

4249 - NOTE big parthenocarpic bulb. S. prob. pale green
prob. white, with one to several minute
orange spots - lip pale white. (see pickle) ①

4250 - *Oncidium lindneri* Lindl. - S. & J. Brown -
lip Brown - with a rich yellow & more or less
column & in the eye pale pink - (see picke) ①
* NOTES TO FULL SLIDE MUSEUM 4/25/47

Rio Lindo - Honduras - Vtg. 6" Part Blotched. 300 m.
Dept. de Yoro - Ph. Abbott 2/24/47

4251 - *Boncora pulquerensis* Ruiz et Pavon - lower
Sepals, petals & column heavily blotched & spotted reddish
brown - upper two Sepals divided longitudinally
in two distinct color areas, half pure white &
half reddish brown. Column with white, excepting
labellum lobe, half of which is pale pink - (see picke) ②

Rio Viejo - Colon Province - very. Puerto Pilar - 25 m.
Ph. Abbott 2/24/47

4252 - *Aspidia principissa* Raff. F. - Sepals & petals pale
green - striped brown - lip pale yellow, with reddish
pattern of dark yellow lines from the column.
Column creamy white. (See picke) ①

Rio Matancillo, vty. Santa Rosa - 25 m. Ph. Abbott
2/24/47

4253 - *Lochmaea pallida* Raff. F. Sepals & petals white
column pale yellow. (See picke) ①

Cerro Peñón - L. Valley - 1000 m. Ph. Abbott 202
2/20/47 -

4254 - *Maxillaria* - S. & J. Tsi - Frontal lobe of
lip red - Brown - ①

4255 - *Sapindus bilineata* (Rottb., f.) SETHIKA.

Peru. Prov. Piura - Prov. Prov. O m. (See Benthos)
2/18/47

4256 - *Pithecellobium oblongum* Benth. TREE - 4 m.
Fls. white - Fruits red - (1)

Rio mark - Atitlán - 300 m. very. on = el valle -
Fls. flowers 2/24/47

4257 - *Solanum leontopetalum* Rottb., f. (1)

Pájaro Blanca - Hasta mts. de the Rio Llano - Dept. of Yoro
Honduras - 300 m. Fls. flowers 2/18/47

4258 - *Aconitum polyphyllum* Rottb. et Pavon - Fls.
Rosset - Vines - (see pickle) (1)

Cerro Padre - El valle de Atenas - 1000 m.
Fls. flowers 2/18/47

4259 - Lockhartia - Fls. yellow - lip with orange
cathes at base - (see pickle) (2)

Cerro Campana - 800 m. Fls. flowers 2/16/47
Collected by DOROTHY ALEX

4260 - *Thecocallis* sp. Sp. pinkish red, petals
pink - flowers brown - petals pink white
with red - brown markings at base. Anthers
off white - white - columns white without
(pickle) (1)

VCTY. SONA - VENTANAS PROVINCE - 1/23/47

4261 - *Maurandya Sepium* (Jacq.) Stev. - Small tree -
Fls. pink - common here recorded - ^{4m.} (4)

VCTY. LA CHORRERA - POTOSI PROVINCE - 50 m. 2/28/47

4262 - *CASSIA TERNATA* L. F. - TREE - 20 m. Fls.
pink - (2)

4263 - *CASSIA MOSCHATA* H. Br. K. - TREE - 15 m.
Fls. burnt orange - (4)

4264 - *Sorghum* - woody stem - (3)

CHIVAS - CHIVAS ROAD - POTOSI PROVINCE - 100 m. 3/2/47
woolly calyx

4265 - *TABEBUIA* - TREE - 20 m. Fls. yellow - (3)

4266 - *PASSIFLORA VITIFOLIA* HBK. Fls. scarlet.
Common - (1)

4267 - *TRACHELENEUMUS FLABRESCENS* (Burm.) WOOD.
TREE - 15 m. Fls. pink - (2)

4268 - *BARLERIA MUCRONATA* NEES - Fls. yellow - (4)

4269 - *TRIPLASIS AMERICANA* L. - Fruits dark pink.
Tree - 15 m. (4)

CERRO PINTO - 5th VALLEY - 1000 m. Fls. white
3/1/47 -

Orellia *Platynomea cordata* d. wels.
4270 - Sepals greenish olive, petals pale green,
stigma olive, tip near white, stamens
divaricate on under surface - (See picture) (3)

Ph. Atkinson

Chiriquí Chiriquí - Provinces - Spec. no. 3/6/47

4271 - Scaphyglottis sp. ①

Rio TUYUZUELLA, Honduras - Ph. Atkinson 3/1/47

4272 - NOTY hit pantherina Retz. F. Single flower,
petals white, with 1-3 minute orange spots,
lip white - (SEE PICKLE) ①

VCTG. Rio de JESUS - Veracruz Province - Ph.
Atkinson 3/2/47

4273 - Asperula epidermocarpa Led. Sepals brown, with
brownish margins. petals pale lavender, lip white,
with prominent purple blotches. Ovary yellow.
Column & base thick cap thick lavender -
(SEE PICKLE) ④

VCTG. Etahosa, C. 2. 100 m. 3/3/47

4274 - Platymiscium ? - Tree - 12 m. fls. orange - ⑤

VCTG. Pinotena - Darién Province - 20 m. 3/4/47

4275 - Combretum sp. woody liana -
Calyx red - Stems yellow - ⑤

4276 - Triplaris - fls. white - tree - 10 m. ③

4277 - Thespesia VINI - Malvaceae - ③

4278 - Pachyrrhizus - VINE - fls. blue - ③

4279 - Louraua Ulei folia Linn. - TREE - 10 m. ④

4280 - weedy herbs - 2 m. fls. white - ②

4281 - *Leucaena* - TREE - 30 m. (5)

4282 - *Heliocarpus* - 2 m. BRT&BARK FLs.
Rose Red - Provincially escarpé (see picke) (3)

4283 - *Rubiaceae* - TREE - 30 m. FLs. WHITE - (5)

4284 - TREE - 30 m. (2)

4285 - *Lauraceae* - TREE - 30 m. (3)

4286 - *Anacardium excelsum* (Bart. & Balf.) Skeels.
TREE - 25 m. (3)

4287 - *Tabebuia pentaphylla* (L.) Hemsl. TREE - 20 m.
FLs. pink - (6)

4288 - *Convolvulaceae* - VINE - FLs. yellow - (3)

4289 - TREE - 10 m. FLs. white - (5)

4290 - *Liana* - FLs. white - (4)

4291 - *Luehea Seemannii* Trinck & Pfeiff. - TREE -
30 m. (5)

4292 - *Aristolochia grandiflora* Swartz - VINE -
FLs. BLOTTED DARK PURPLE - (4)

4293 - *Petrea volubilis* Stev. woody vine - FLs.
Blue - (1)

4294 - *Tabebuia rosea* (Seem.) Hemsl. - TREE - 25
meters - FLs. yellow - (2)

4295 - *Bombax Barri'oor* (Seem.) Delessie - TREE -
20 m. FLs. white - (2)

Vtg. Belvedere - Potosi Province - 25 m. 2/28/47

4296 - *Anacardium excelsum* (Bart. & Balf.) Skeels.
TREE - 25 m. Common along streams - (2)

Vtg. YAPE - Rio Tuirá - Pará Province - 25 m.
3/5/47

4297 - *Avicaria* whitfeldi Stev. - TREE - 12 m. (3)

4248 - Composite - TREE - 6 m. Fls. pinkish
lavender - leaves greyish - Also seen
on River Banks ⑧ = Red Apiazi - common.

4299 - woody HERB - 3 m. Fl. yellow - ④

4300 - woody HERB - ^{Pubescent} 1½ m. BRacts red - Fls.
yellow - common in banana plantations - ③

4301 - KRAZIS - common on riverside banks - ⑤

4302 - Acanthaceae - Storksbill Herb - 3 m.
Fls. white - ③

4303 - *Helicocarpus popayanensis* HBK. - TREE -
12 m. Fruits pink - ⑤

4304 - CORN - DARIEN NO. 1 - Red - cultivated by local
INDIANS

4305 - CORN - DARIEN NO. 2 - yellow.

4306 - CORN - DARIEN NO. 3 - Red - DWARF

VCTY. PINOTANA - DARIEN PROVINCE - 2014. 3/4/47

4307 - Composite - woody Herb - 2 m. Fls.
white - common - ⑤

4308 - *Heliconia marginata* Hook - ①

4309 - *Oncidium striatum* Lindl. (see pickle)
Bl. yellow - spotted red - Brown - Lvs. yellow
yellow on both surfaces - ①

4310 - *Gustavia superba* (H.B.K.) Benth. - TREE -
10 m. ③

4311 - *Crotopia mexicana* Hemsl. - TREE - 10 m. ②

4312 - *Ochroma diversifolia* Powder - TREE - 12 m.
Fls. white - ②

4313 - *Heliconia bihai* L. ①

Cerro Pajita - Region north of El Valle de Anton
1200 m. Fls. 3/10/47

4314 - *Polyoecia barbara* (Lindl.) Reichenb.

♀ & ♂. Pale translucent yellow, heavily spotted red. Labellum white, the lateral lobes spotted red. Lower frontal lobe white, spotted purple. ①
Column brown, border of purple. (See pickle)

VCTY. MADERA DULCE, C.R. 30 m. 3/20/47

4315 - Tree - 25 m. - RARE in coffee dominated

deciduous forest - leaves - (IF you don't ⑨
believe it, open the seed pods!!)

VCTY. PACORA - 10 m. 3/16/47

4316 - *DALBERGIA RETUSA* Hemsl. - Tree - 20 m. Fls.
white - ⑤

"LA VICTORIA" - VCTY. LA JOYA - Panama Prov. 200 m.
3/16/47

4317 - WOODY SCRAMBLED SHRUB. Fls. pink -
Leaves - ③

CERRO CAMPIANA - 2000 ft. Fls. coll. Graham Frickell
2/10/47

4318 - *ONCIDIUM STIPITATUM* - (Pickle only) ①

4319 - *DICERIUM BIDIMINUTUM* (Reichenb.) Hemsl. (Pickle only) ①

4320 - *EPIOMYSIAE AFF. E. NOCTURNUM* - Growing on
rocks in full sun. (Pickle only) 8 plant - ①

EL VALLE - 1800 FT. FL. IN THE COLD. GRAHAM FARRELL
2/15/47

4321 - *GONGORA quinquenervis* Ruiz et Pavon - (Pickle only) ①
4322 - *CATASETUM SCURRA* LINDL. F. (Pickle only) ①
4323 - *DICHLAEA* - (Pickle only) ①
4324 - *MASCHILARIA ENDRASSII* VAR. *ANASTISAMENTA* (A & S.)
SCHWEINF. (Pickle only) ①

CHIVA - CHIVA RIO - 50 M. COL. GRAHAM FARRELL
1/20/47

4325 - *EPIDENDRUM SULCATUM* ALEX. - (Pickle only) ①

CERRO CHAMPANA - 1000 FT. FL. COL. GRAHAM FARRELL
1/20/47

4326 - *EPIDENDRUM STAMFORDIUM* BATEM. (Pickle only) ①
4327 - *MASCHILARIA* - (Pickle only) ①
4328 - *MORMODIA'S ITINERUM* LINN. (Pickle only) ①

VCTY. BAGUO - 25 M. FL. COL. GRAHAM FARRELL
2/15/47

4329 - *ONCIDIUM AMPLIUM* DICK. (Pickle only) ①
4330 - *ONCIDIUM STIPITATUM* ? - (Pickle only) ①

CERRO CHAMPANA - 2000 FT. FL. COL. GRAHAM FARRELL - 3/15/47

4331 - *EPIDENDRUM ONCIDIOIDES* ? (Pickle only) ①

VCTY. SANTA FE - VERACRUZ PROVINCE - FOREST 3000 ft.
OR CERRO TUTE' - 3000 ft. 3/24/47

4332 - Blechnum - Epiphytic - Stems on CEDRO PADRE
& CEDRO TRINIDAD. (1)

4333 - Heliconia - INFLO. perianth - Apical 1/2 of
BRACTS DARK RED - BASAL 1/2 yellow - 3 m. (1)

4334 - Pyraminia - Epiphytic - (1)

4335 - Columnnea - Epiphytic - calyx tubular - (1)

4336 - Elaphoglossum LINDFOLIUS PRESL ?? FRUITING spec. (1)

4337 - Elaphoglossum dimidiatum PRESL ?? FRUITING spec. (1)

4338 - Maxillaria - (coll. by William Fairchild) Spec. P.
WHITE - lip white, THE FRONTR Lobe yellow.
(see picke) (1)

4339 - SCORE - IN HEAVY FOREST - (3)

4340 - GAVENDISHIA - Epiphytic SHrub - 2 m.
BRACTS PINK - Fls. lavender - (9)

4341 - TREE - 15 m. Fls. white - also on
CREST OF CEDRO PADRE - (5)

4342 - Acanthaceae - woody Herb - 2 m. Fls. red. (3)

4343 - GAVENDISHIA OVALIFOLIOIDES A. C. Smith - (3)
Epiphytic SHrub - 1 1/2 m. BRACTS PINK -
Fls. pale yellow -

4344 - SPANTHEA NAVARRAEIS (Aires) L. WMS.
FRUITING specimen - (1)

4345 - RUBIACEAE - SHrub - 2 m. Fls. blue - (7)

4346 - LOBeliaceae - epiphytic Herb - 3/4 m. (1)

4347 - MELASTOMACEAE - woody HERB - 1 m.
Fls. pink - (1)

4348 - CEPAEALEA PUNICEA Sw. - TREE - 5 m.
BRACTS orange-red - (1)

4349 - CENTROPOON - SCREWST SHrub - 3 m.
Fls. red - tipped orange yellow - (1)

4350 - BERNIERACEAE - HERB - 1 - 1 1/2 m.
Fls. white - MONOPHYLE (4)

4351 - TROPIDIACEAE - Epiphytic HERB -
Fls. white - (1)

4352 - Olusiaceae - TREE - STILT ROOTS - 20 m. fls.
WHITE - STAMENS yellow - GROWTH LATEX. (6)

4353 - PSAMMISIA - BRANCHING EPiphytic SHrub - 4 m.
COROLLA CORAL PINK - TIPPO WHITE - (4)

4354 - ERICACEAE - EPiphytic BRANCHING SHrub - COROLLAS
CORAL PINK WITH DARK GREEN TIPS - (4)

4355 - MELASTOMACEAE - TREE - 75 FT. fls. WHITE -
ALSO ON CREST OF CARRO PARTE - (6)

4356 - Smilacina paniculata - fls. WHITE (1)

4357 - BEGONIA STADRA AUBL. ?? - CLIMBING &
ROOTING ON TREES - fls. WHITE - (1)

4358 - CUCURBITACEAE - LIANA - fls. BRIGHT ORANGE - (1)

VCTY. SANTA FE - FORESTED SLOPES OF CARRO TUTE -
2500 FT. 3/25/47 - WITH DR. HENRY FAIRCHILD

4359 - BULMANIA DUATUMAHANSIS L.B. SMITH. (2)

4360 - Bromeliad - epiphytic - (1)

4361 - Bromeliad - epiphytic - (1)

4362 - COSTUS - 1 1/2 m. BRACTS RED - fls. RED - (1)

4363 - Bromeliad - epiphytic - (1)

4364 - Epidendrum - fls. GREEN - (SEE PIÖTKE) (1)

4365 - Epidendrum coryptanthum L. WMS. (SEE PIÖTKE)
fls. WHITE - (1)

4366 - COSTUS - BRACTS RED - LEAVES - (1)

4367 - BOMARIA ALBRII KILLIP - VINE - SEPARS
SKULL PINK - FRONTS PINK, SYMMETRIC GREEN - (3)

4368 - RODELETIA - TREE - 18 FT. fls. PINK - (8)

4369 - CANTROPORUS NOTANUS - LAX SHrub - 3 m.
fls. PINK - (1)

4370 - RUBIACEAE - WOODY HERB - 1 m. FRUIT RED - ①
 4371 - SCAPHYTHOTTIS - FLG. STRIPED LAVENDER - ALSO ON
 CACAO PAJITA - ①
 4372 - EPIDENDRUM DIFFICILE VAG. FLB. GREEN - ①
 4373 - BESNERIACEAE ? - WOODY HERB - 2 m. ②
 4374 - APHELANTHORA AURANTIACA (SCHIEDW.) LINOL. ①
 4375 - BERONIA SQUAMOSA G. DC. FLB. WHITE ③
 4376 - Palm - 6 m. FRUIT YELLOW - ①
 4377 - Palm - 6 m. ①
 4378 - MACROCNEUMUS GLABRASCENS (BENTH.) WOOD. TREE -
 15 m. FLB. PINK. ③
 4379 - PHRYMONIA - EPIPHYTIC WOODY HERB - 1 m. FLB.
 RASIN PURPLE - ③
 4380 - COLUMNNA ARANTIA MORTON - FLB. SCARLET WITH
 DOLCE YELLOW STRIPES - ①
 4381 - COLUMNNA LOCALIS MORTON - FLB. RED -
 EPIPHYTIC - ②
 4382 - EPIPHYTIC SHROB - RUBIACEAE? - FLB. SALMON
 RED - ②
 4383 - PLATYTHALLIS - (SEE PICHLA) ①
 4384 - PLATYTHALLIS - ①
 4385 - PLATYTHALLIS - (RESMARIA) (SEE PICHLA) ①
 4386 - PLATYTHALLIS - (SEE PICHLA) ①
 4387 - EPIPHOROWIANI - POSSIBLY NEW - LF PURPLE -
 3 & P. DARK GREEN - (SEE PICHLA) ①
 4388 - PLATYTHALLIS - FLB. RASIN PURPLE - ①
 4389 - CONVOLVULACEAE - VINE - FLB. NARROWISH
 WHITE - ③
 4390 - TREE - 10 m. FLB. GOLDEN GREEN - ⑤
 4391 - LORANTHACEAE - PARASITIC SHROB IN TOPS
 OF LARGE TREES - 2 m. FLB. YELLOW -
 FRAGRANT - ③

4392 - CARICACEAE - TREE - 7 m. FLs. white - (6)
 4393 - PLATYOMIUS CORIACEA L. WAD. (see Pickle) (3)
 4394 - ROBINIACEAE - BINTI WOODY LIMA - FLs.
 WHITE - FRAGRANT - (5)
 4395 - BROMELIACEAE - EPHYTIC - (1)
 4396 - RUBIACEAE - TREE - 8 m. FLs. purple - common (3)
 4397 - GRASS? FLs. white - (1)
 4398 - BROMELIADS - EPHYTIC (2)
 4399 - ROBINIACEAE - SHrub - 4 m. FLs. yellow - (2)
 4400 - LYCASTE MACROPHYLLA D. DON. (see Pickle) (1)
 4401 - ODONTOCHENIA STRACTOR (NEES) KUNZE -
 WOODY HERB - 1 m. FLs. red - (1)
 4402 - Acanthaceae - FLs. dawndark - (1)
 4403 - MAHOGNAY - TREE - 15 m. FLs. white - (1)
 4404 - ARDISIA SEIBERGII - SHrub - 4 m. FLs.
 dawndark - (4)
 4405 - MAXILLARIA - 8 ft. white - lip red - brown -
 foliage brassy green - (see Pickle) also
 on CARDO PASTA - (5)
 4406 - PLATYOMIUS - (see Pickle) (1)
 4407 - TURANIA DISSITIFLORA (ANDRA) L. B. SMITH (1)
 4408 - HELICONIA - INF. LIP - BRACTS blood
 red - FLs. yellow - (1)
 4409 - EPIBAREUM - possibly new - (see Pickle) (1)

4410 - ~~Epiphytic~~ - Epiphytic shrub - 15 cm. fls.

Pale pink - (see Pickle)

(1)

4411 - Pleurothallis - (see Pickle)

(1)

4412 - Pleurothallis (Rostropia) (see Pickle)

(1)

4413 *Cribsa allenii* Woodson - tree - 20 m.

(2)

VCY, SANTA FE - Rio Santa Maria - Veracruz
Prov. 1,000 ft. 3/26/47

4414 - *Epidendrum atropurpureum* Willd.

(2)

4415 - *Apeiba tibourbou* Aubl. tree - 6 m.

(3)

4416 - *Bomarea spicata* - tree - 12 m. common -

(3)

4417 - *Inga* - tree - 8 m. fls. white -

(5)

4418 - *Miconia acuminata* (Swartz) DC - tree - 4 m.
common -

(4)

4419 - *Mormodes lawrenceanum* Lindl. fls. olive green - (1)

4420 - *Brassavola nodosa* Lindl.

(1)

4421 - *Ochroma littoralis* - tree - 10 m.

(1)

4422 - *Croton mexicana* - tree - 10 m.

(2)

4423 - *Fragaria Simmondsii* Ch. Rose - tree - 15 m. (3)

4424 - *Anacardium excelsum* (Berg & Bak.) Skeels - (2)

4425 - Composite - woody herb - 2 m. fls. white (5)

4426 - *Crassulaceanoides* - woody herb - 1 m. fls. yellow - (4)

4427 - *Hymenaea courbaril* - TREE - 10 m. ①
4428 - *Vauvilia planifolia* AND. Fl. yellow - ②
4429 - *Lecythis* - Fl. yellow - common - ①
4430 - *MARATHRUM SCHIEDERIANUM* OLLARI. common on
ROCKS IN FOREST - Fls. pink - ①

VCY, PINOANO - DARIEN Province - 3/14/47

4431 - *JACARANDA COPACI* - Fl. blue - TREES - 20 m. ⑥

VCY. SANTIAGO - VERACRUZ Province - 3/28/47

4432 - *BYRSONIMA CRASSIFOLIA* (L.) HBK. TREES - 10 m. ②

VCY. DIVISA - 25 m. 3/28/47

4433 - *SAMANEA SAMAN* - TREE - 20 m. Fls. pink - ②

VCY. SANTA FE' - VERACRUZ - 1000 FT. 3/26/47

4434 - *CASSIA FRANCIS* - Fls. pink - TREES - 20 m. ①

4435 - *ANDIRA INGAMIS* - TREES - 15 m. Fls. lavender - ③

4436 - *BYRSONIMA CRASSIFOLIA* - TREE - 10 m. ①

4437 - *SAMANEA SAMAN* - TREE - 20 m. Fls. pink. ③

4438 - QUASSIA ANDRA - Small trees - 4 m. Fl. pink -
Forests thicker more barren trees along rd
Santa Maria - (2)

4439 - TREE - 15 m. Fl. Rose purple - leaves - (4)

4440 - EPIPHORUS IMATOPHYLLUM LINN. - Fl.
Rose purple - growing in wet near streams - (4)

Region west of Santa Fe - dry slopes & carros
Tute - 1500 ft. - 3/25/47

4441 - CHrysophyllum - TREE - 20 m. (5)

4442 - BIGNONIACEAE - liana - Fl. mauve - Plant in
places with a strong onion odor - (5)

CARRO PASTA - El Volca - 1200 m. Fl. tambor
4/9/47

4443 - Plavrothallis - see pickle (1)

CARRO ULUCA - VCTY. EL ZAMORANO - Honduras -
5000 ft. Fl. tambor 4/8/47

4444 - TAKANARA - epiphytic on oaks - 3 ft. P. very
pale green - lip white, with pale greenish yellow
spot - Two faint pink lines inside the lip,
column pure white - (see pickle) (1)

Cerro Patita - El Valle - 1200 m. Fls. Standard

4/6/47

4445 - Pleurothallis - Fls. RABIN Purple - ①

Rio Mata - AHORADO - 1500 FT. Fls. Standard 4/2/47

4446 - Salviniastrum longifolium - ①

CARRO CAMPAÑA - 2500 FT. Heavy Forest - Fls.
Standard 4/2/47

4447 - Pescatoria carina Rohl. F. ①

VCY. Rio de Vasos - Fls. Standard 3/20/47

4448 - Epidendrum ATROPRUINUM - (See Pickle) ①

Rio Lindo - HONDURAS - Fls. Standard 4/2/47 -

4449 - Fls. ORANGE - See Pickle - ①

El Valle - Floor - 1800 FT. Fls. Standard 3/20/47

4450 - MAXILLARIA CHARTICIFOLIA A. & S.,
Fls. pinkish Brown - (See Pickle) ①

VCTY. PACATA - Fls. STUBBIA 3/20/47

4451 - Oncidium stipitatum - S. & P. yellow, blotched
red-brown - Frontal & lateral lobes of lip bright
yellow on BOTH SURFACES. Callus slightly elongated
tan. (see picke) ①

VCTY. CASA COLORADA - Hills North of Manzanilla,
NICARAGUA - 1000 ft. Fls. STUBBIA 4/1/47

4452 - Oncidium stipitatum ? - S. & P. yellow - Spotted
red-brown - lip yellow on BOTH SURFACES
except near red & crooked line or red dots on
underside S. & P. - ①

VCTY. DAVID - CHIRiquí Province - Fls. STUBBIA
3/20/47

4453 - Oncidium stipitatum ? - S. & P. heavily blotched
red-brown. Frontal & lateral lobes of lip yellow,
callus brown - undersurface of frontal lobe of
lip heavily spotted red-brown - (see picke) ①

Hills near "la Joya" - Panama Province -
4/13/47

4454 - Bifrenariae - 20000 ft. elev. - Fls. STUBBIA - ④

Cerro Chupana - 2000 ft. Fl. number 3/20/47

4455- *Trichocentrum* -

(1)

Veg. at Tomarano - Havasas - Fl. number
3/20/47

4456 - *Epidendrum ciliobolus* - on Pines - 8,900.

Red-brown - lateral lobes of lip pale green -

Fluted purple on outer surfaces. Frontal lobe
pale yellow, strongly veined purple. Column
white, shows no purple at base. Anthers
very yellow - (see picke)

(1)

Veg. Acora - Fl. number 4/10/47

4457- *Oncidium stipitatum* -

(1)

Rio Tapachocha - Havasas - Fl. number

4/20/47

4458 - *Norychia parvula* -

(2)

Veg. National Airport - 4/13/47

4459- *Roellinia peruviana* - tree - 15 m. Fls. orange (2)

4460- *Jacaranda copaia* - tree - 20 m. Fls. blue - (2)

4461- *Brysonia crassifolia* - tree - 10 m. Fls. yellow - (2)

Hills near La Joya - 2000 ft. 4/13/47

4462 - Jacaranda copia - TREES - 20 m. fls. blue - (10)

Cerro Pajita - Hills north of El Valle
1200 m. Fls. strob. 4/14/47

4463 - Epiphorodon moyo banane Karrab. - S.A.P.
pink green, lip white - (see pickle) (1)

4464 - SOBRALIA BOUCHAI A. & S. (see pickle) (1)

Hills near Atacoa, C.R. 300 ft. 4/15/47

4465 - Jacaranda copia - TREES - 20 m. fls. blue - (2)

Hills near Cerro Morro - C.R. 300 ft.
4/20/47

4466 - Jacaranda copia - TREE - 20 m. fls. blue - (4)

RTY, MADON DAM, C.R. 150 ft.
4/18/47

4467 - Jacaranda copia - TREE - 20 m. fls. blue - (3)

BALBOA, C.R. 4/20/47

4468 - TREE - 20 m. Cultivar of *Dalbergia hornei*
Ferruginea - Fls. yellow - (4)

very. Sierras de Gepe - Honduras - 5000 ft. - Fls. yellow - 4/2/47

4469 - *Epidendrum ciliolosum* - S. & P. green - lip
greenish white. Column marked red-brown -
(see pic) (1)

El Valle - floor - 1800 m. 4/8/47

4470 - *Andira inramis* - tree - 12 m. Fls. ^{PINKISH} - (5)

4471 - *Cassia grandis* - tree - 15 m. Fls. pink - (4)

4472 - *Andira jamaicensis* - tree - 10 m. Fls. pink - (1)

4473 - *Passiflora* - Fls. greenish white - (3)

4474 - *Sapindaceae* - vine - in second growth scrub, (2)

4475 - vine - (4)

4476 - *Sapindus* - (1)

Hills south of El Valle - 2500 m. 4/9/47

4477 - *Tabeaia heterophylla* (DC) Hemsl. - tree
15 m. Fls. yellow - (2)

El Valle - down oak tree - 1000 m. 4/8/47

4478 - *Carica* sp. TREE - 6 m. in heavy forest - ②
4479 - *Citronella* - numerous at leaves red - ①
4480 - *Epidendrum orchidoides* - 80% fl. now. lip white,
mottled purple - (See pickle) ①
4481 - *Cratoxiphia* - Epiphytic shrub 1/2 m. ①

Verg. Belveo - 4/12/47

4482 - *ANDIRA inermis* - TREES - TO 50 FT. FL.
lavender - ④

Verg. Chorrera 4/12/47

4483 - *TACUBIA heterotricha* TREE - 18 M. FL.
yellow - ②

4484 - *Brysonima crassifolia* - TREE - 10 M. FL.
yellow - turning burnt orange with age
Verg. Common. ②

Verg. Sivatapoge, Honduras - 5000 ft.
Fl. March 3/20/47

4485 - *Blattia* - Sp. name - floral lobe or
lip purple - with raised yellow keels, the
lateral lobes striped red on the inner
surfaces - (See pickle) ①

Carro Chiquana - 2000 ft. Fls. rambo 4/2/47

4486. *Epidendrum ionophlebium* Rchb. f. - 5 x P. GREENISH
WHITE - lip white, lined purple - (SEE picke) (3)
Ranunc.
4487. *Pleurothallis* - fls. cream white - (1)
4488. *Oncidium striatum* - (1)

VCTY. ARRANSTAR - 4/12/47

4489. *Jacobinia Rhodopis* L. F. W. May. - TREE -
20 m. FL. BLUE, with white spot inside
corolla. (Flowers only) (1)

VCTY. CHORRERA - 4/12/47

4490. CORN - CULTIVATED ON OUTSKIRTS OF TOWN - USED
TO FEED PIGS & CHICKENS - OWNERS SAY THEY
HAVE BEEN THERE BUT A SHORT TIME &
THIS IS THEIR FIRST CORN CROP. Purchased
SEED FROM A NEIGHBOR -

El Valle - VCTY. LA MESA - 1000 ft. 4/2/47

4491. CORN - common yellow - small ears -

NOTES TO HERB. SANT. MUSEUM 5/7/47

main road - very. summit - 5/4/47

4492 - *GOODMANIA AESCHYLIFOLIA* (HOK) STRAWB.
(SEE FOSBEAR 27394) TREE - 12 m.
Fls. tan - ⑨

Cerro Paita - El Valle de Ancon - 3500 ft.
5/12/47

4493 - Bromeliad - terrestrial on steep banks - ①
4494 - Melastomaceae ?? - terrestrial Herb -
Fls. BRIDAL PINK - ①
4495 - Asclepias - corky vine - Fls. yellow - ④
4496 - Epiphytic shrub - 6 ft. Fls. purple - ②
4497 - TREE - 10 ft. Fls. yellow - ①

Cerro Paita - 3000 ft. 5/12/47

4498 - TREE - 30 ft. Fls. white - ⑯

Cerro Paita - 2000 ft. 5/12/47

Okrosia tanakensis.

4499 - Lamiaceae - AVOIRA? - very large leaves -
90 ft. Fls. lavender - fairly
common - ⑳

El Valle Chiquito - Fls. Atahua 5/14/07
1800 ft.

4500 - *Cycnoches diurna* - (see Pickle) ②
S + L. green - spotted red-brown - lip white -

Vtg. David - Chiquito Province - Fls.
Atahua 4/29/07

4501 - *Epidendrum* - aff. E. tangense - S + L.
greenish yellow to tan. lip white -
(see Pickle) SEE Photo - ⑥

Vtg. Procora - 150 ft. Fls. Atahua 5/8/07

4502 - *Catasetum viridiflavum* - (Stanhopea sp.) ①

Carro Campaña - 2500 ft. Fls. Atahua 4/23/07

4503 - *Phragmipedium* - fls. translucent - S + L.
& lip. Heavily striped & some purple - ①
(see Pickle)

500 ft.
Vtg. Procora - Chiquito Province 1 Fls.
Coll. Harry Dow - 5/9/07

4504 - *Catasetum heterocarpum* - lip very heavily
spotted red-brown. S + L. very dark
red-brown. (see Pickle) ①

Vtg. Remond - Chiriquí Province. 100 ft.
Fls. Tambor 5/9/47

Oaxacan

4505 - *Cataseum unicolor* - lip green - hairy
Spotted Red-Brown - S. fl. yellow tan-Brown -
(See pickle) ①

4506 - *Cataseum heterocarpus* - Small Fls. dark
phase - Oaxacan ①

Carro Ture - Hills west of Santa Fe
Veraguas - 2500 ft. Fls. Tambor 5/9/47

4507 - *Solanopsea pulchra*? - Segals pale yellow
petals yellow, lip tan - marked & mottled
Red-Brown - reddish brown callus -
(See pickle) Common ^{see photo} ①

4508 - *Elliottia* - Hyacinthaceae Rabb. F.
Fls. yellow - lip edged orange - ①

4509 - *Pescatoria carina* Rabb. F. ①

~~CASITAS, DPT. DE PARAI'SO~~ 2500 FT.
~~HONDURAS - 1000 ft~~
~~2500 ft~~

VCTY. ~~EL 24 MILE~~ - HONDURAS - 2500 FT.

FLO. STATION 5/14/47 BRASSAVOLA CUCULLATA R. BR.

4510 - Epidendrum - Leaves redare - S, & P. yellow,
narrowly apic brown - Frontal lobe or lip
yellow - narrowly margins brown - Lateral
frontal lobes or lip & column pure white -
(SEE pic) also see photo - ①

Cerro Potosi - 3500 FT. 5/12/47

4511 - Cyclanthaceae - stout epiphytic plant - common - ②

VCTY. Guanit, C.R. 5/18/47

4512 - Rubiaceae - tree - 20 FT. Fls. creamy white,
fragrant - Fairly frequent in cloud seano
growth along roads - ⑩

VCTY. Beliceo - 5/22/47 - dry deciduous
scrub -

4513 - Lauracea - shrub - 4 FT. Fls. very pale pink -
common - ②

4514 - Stigmaphyllo ellipticum (HBR) Voss.
vine - fls. yellow - ①

4515 - ^{BURSERIA Tomentosa} PHOTIUM? - tree - 15-20 FT. deciduous during
dry season - sometimes used for fence posts - common - ⑪

Very. Summit, Cr. 2, 500 ft. Heavy forest -
5/23/47

4516 - CORKY VINE - Fls. Dull red - ^{222, R. Key} Spp. cavarde -
Asclepias - (10)

4517 - TURNERA panamensis URBAN - SHrub -
8-10 ft. fls. orange - Very Showy - (10)

4518 - malstromae - SHrub - 8-10 ft. fls. white -
Very common on roads & scrub in ravines
grass - (3)

4519 - malstromae - Small rounded tree -
20 ft. fls. white - (4)

Ancon Hill - Cr. 2, 200 ft. 5/24/47

4520 - TABEBUIA HETEROTRICHIA tree - 60 ft. fls.
yellow - (1)

4521 - TANONA - spreading deciduous tree -
. 35 ft. (1)

Pacific lowlands - Fls. coll. R. R. Johnson -
5/28/47

4522 - ONCIDIUM - plants identical with O. plantaginea -
Spp. yellow - barred brown - lip bright yellow -
See photo & picke - (1)

Cerro Chiquita - 2000 ft. Fl. Rambo 5/23/47

4523 - *Epidendrum eburneum* LCHB. F. Sepals pale tan -
Petals pale cream yellow - lip pure white - with
basal bright yellow callus - (See Pickle & Moro) ①
Flowers on rocks in full sun -

Vtg. Preco - 50 ft. Fl. Rambo 5/14/47

4524 - *Catilium viridi-flavum* Hook - Ssp.
green - lip green - with shiny yellow throat
on inner surface - (See Pickle) ①

Rio Tapenecito, Honduras - Fl. Rambo 5/14/47

4525 - *Epidendrum cochlearium* L. - Ssp. pale green
outer ^{surface} $\frac{2}{3}$ lip deep purple - basal $\frac{1}{3}$ pale
green - inner surface of lip $\frac{2}{3}$ max purple
 $\frac{1}{3}$ base white, with purple lines - center
of lip with yellow wash over purple -
(See Pickle) ①

Rio Mata Montes - 1500 ft. Vtg. in valley
Fl. Rambo 5/14/47

4526 - *dyctea Brasiliana* Kh. - Sepals very
pale green - spotted pink - Petals & lip white, spotted
pink - (See Pickle & Drawier) ①

HILLS SOUTH OF TIRANASUA, NICARAGUA - 1000 FT.

PL. STAMBON 5/18/47 -

4527 - BRASSAVOLA - 3 ft p. pale green - lip white - ①

UPPER RIO CHICO - DARIEN PROVINCE - 6/13/47

4528 - CORN - medium size ears, grains black & dark red - kept separate & used for cooking - will not pop.

4529 - CORN - large ears - grains orange - found in mixed lot.

4530 - DARIEN - DWARF yellow - with scattered purple & black stains - FOUND in mixed lot. A POP CORN - BETTER THAN 4531 - BEST

4531 - CORN - DWARF RED - A CHICHA CORN - ALSO A POP CORN - ALTHOUGH APPARENTLY NOT USED IN MEXICO AS SOOT - POPS WELL -

4532 - CORN - large grains DARK ORANGE - THIS WAS BEING BOILED TO MAKE A SWEET JUICE - SEE DIARY & PHOTO -

4533 - CORN - DWARF - GRAINS PINK TO DARK RED - FOUND in mixed lot - with NOT POP

4534 - CORN - LARGE EAR - large grains - purple, yellow & white - in mixed lot -

4535 - CORN - DWARF EAR - purple, white, red
& tan strains - in mixed lot -

4536 - CORN - SHORT STOUT EAR - purple, white,
yellow & pink strains -

4537 - MEDIUM SIZES EARS - besides all nicely
BLACK - very uniform Rows - in mixed lot -
works NOT POP.

4538 - CORN - DWARF EARS - STRAINS DARK ORANGE, with
scattered strains of a very DARK RED -
in mixed lot. Also A POP CORN - BETTER THAN
NO. 4531

4539 - DWARF EARS - STRAINS purple, dark pink,
& white - in mixed lot -

4540 - CORN - MEDIUM SIZES EARS - STRAINS mixed
Red & Black - mixed in bin with 4528

4541 - CARIBBEAN yellow -

4542 - CORN - LARGE EAR - ORANGE STRAINS - in
mixed lot -

4543 - CORN - LARGE EAR - ORANGE & BROWN STRAINS
in mixed lot -

4544 - CORN - LARGE EAR - ROUND GRANDE RAIN

4545 - CORN - SHORT STOUT EAR - GRANDE RAIN

4546 - CORN - DWARF EAR - LARGE CHOCOLATE - BROCCO
RAIN - in mixed lot

Rio PACCORA - very. PACCORA - 0 m.

Flo. coll. L. S. Johnson Fairchild - 4/15/47

4547 - Oncidium pumilum SCHLECH. - Fls. only -
Pickle only - ①

Cerro Canyon - 2400 ft. - Flo. coll.
GRAHAM FAIRCHILD - 5/20/47 -

4548 - Epidendrum oncidioides - pickle only. ①

Pacific Coast lowlands - 100 ft. Flo.
coll. GRAHAM FAIRCHILD 5/10/47 -
(PACORA?)

4549 - ONCIDIUM - PSEUDO - BULBS identical with these
or O. pumilum - pickle only. ①

Cerro Canyon - 2500 ft. Flo. coll.
GRAHAM FAIRCHILD 5/1/47 -

4550 - LYCaste - pickle only. ①

Rio MIAZO - AGUADAS - 1200 ft. Fls. coll.
W.H. GRANT FAIRFIELD - 5/15/47

4551 - LYCOPTE BRUNNEIPETRA - prickle orchy - ①

Hills South of EL VALLE - 2000 ft.
Fls. coll. W.H. GRANT FAIRFIELD - 3/12/47

4552 - OCULICUM CONFUSUM? - prickle orchy ①

HEADWATERS RIO ALFICO - DARIEN PROVINCE - 750 ft
6/12-13/47

4553 - ZAMIA - SHORT TRUNK - nearly buried in
the ground - Above ground portion about
4" - in heavy forest - ①

4554 - ZAMIA - STERILE - trunk branched, 6 ft.
tall - SEE PLATE - ①

BALBOA, C.R. MAY 12, 1947

4555 - CHASSIA SITIENS - tree - fls. yellow -
30 ft. cultivated - ②

Very. Summit, C.R. May 14, 1947

4556 - MELASTOMAE - SHrub - 5 ft. Fls. white,
with red stripes - common on cut over
land - (8)

Cerro Campina - 2000 ft. Fls. Rambo 5/26/47

4557 Stanhopea: Sp. pale yellow, spots rose
purple - column broadly whitish, termination
in two horns exceeding the pollinia in
length, color pale white, blacked red-brown-
ish creamy white, spotted purple - SEE
Pickle & Moro - (1)

4558 - EPIDENDRUM - AFT. E. FRANCIUS - Sp. fl. creamy
white, lip white, with purple stripes.
FRANCIA - SEE pickle - (2)

Cerro Campina - 2500 ft. Fls. Rambo
6/20/47

4559 - ORCHID - epiphytic - Fls. pale waxy white,
inner lip whitish & spotted yellow - SEE
pickle, pickle & Moro - FRANCIA - (1)

Hills EAST OF Oaxaca City - VOTY. 0^o = MESS
1000 FT. Fls. TUESDAY 6/3/47

4560 - *BRASSIA* - SEE PICHLA - PHOTO & SKETCH ①
2 - LEAVES

EL VALLE - Loma del Tule - 3000 FT. Fls.
TUESDAY 5/26/47

4561 - *Epidendrum*, aff. E. nocturnum - ①

4562 - *BRASSIA* dancans? ONE LEAF - SEE PHOTO,
PICHLA & SKETCH - S. A.P. GREENISH ①
yellow, Blotches Red-Brown near base,
lvs pale yellow, spotted Red-Brown in central
basal portion - FUTURE OR GHOST ORNAMENT

EL VALLE - CARRO PAVITA - 3400 FT. Fls.
TUESDAY 5/26/47

4563 - *Phalaenopsis* aff. P. coccinea - ②

CARRO TUTE', Review west of Santa FE'
Veracruz, - 2500 FT. Fls. TUESDAY 5/26/47

4564 - *Pescatoria carina* - ②

CARRO TUTE - Río Rio WEST OF SHAW FE' VERNAS
3000 FT. FL. CAMBODIA 6/20/47
Catas et viae Suave A. & S.

4565 - ORCHID - Epiphytic - identical in VEGETATIVE
appearance with no. 4559 - Fls. pure
waxy white. Inner lip spotted purple.
Strongly scented, like a strong perfume
or soap. See Mero & Skutch - picke. ①

4566 - Epidendrum difforme - Fls. green. - ①

VCTY. STAND FE' - VERNAS PROV. 1000 FT.
FL. CAMBODIA 6/24/47

4567 - Hypothecia brevispatula - on trees along river - ①

RIO TEPEWELLER - NOUVELLES - FL. CAMBODIA
6/24/47

4568 - Epidendrum ciliolatum - ①

4569 - Cycnoches diurne - (see picke) ①

Circuito Papeque - Konawas - 5000 ft - on
Pines - Fl. Rambo 6/12/47

4570 - *Thrixsideria* - fls. yellow - (See Pickle) ②

Carro U Yoca - very. al 2 Ambo - Konawas -
5000 ft. Fl. Rambo 5/26/47

Intersidarium - (Checkers) ^{mexico ro}
^{Konawas.}

4571 - *Catasium* - S 14 P. pale green, distinctly
Spotted Red-Brown - 1/2 INCH on outer
surfaces, DARK RED-BROWN within.
See Pinto & Pickle. - - - ②

(Pickle deposited in the Ames Herb. collection)

Very. Rambo - 5/26/47

4572 - *Fonopsis utricularioides* - see pickle ①
Fls. lavender -

Very. Summit, C. 2. 6/25/47

4573 - *Styphnolobus paniculatus* ^{see m} woody vines -
Fls. white - fragrant - ⑨

Rio Chico, very muddy, Darien Province -
6/9-11/1947

4574 - COSTUS - 9 FT. BANKS RIVER - ①

4575 - Bromeliad - P. Tectoria, forming dense colonies on steep banks above river. ①

4576 - TREE - 30 FT. FL. white, Rushes. ⑩

4577 - Bignoniacae - woody climber - fls. ? purple - "TORTUGA" ⑥

4578 - APEIBA ASPERA - TREE - 60 FT. FL. yellow - ⑥

4579 - ARDISIA ^{PALUANA} - TREE - 30 FT. FL. very pale pink with yellow stamens - ⑥

4580 - Lauraceae - TREE - 25 FT. FL. white - "SIDUA" ⑯

4581 - Lantana - shrub - 6 FT. FL. grande - ②

4582 - Chrysiva - shrub - 6-8 FT. FL. white - very common - leaves reported to be used as a fish poison. ④

4583 - Ponderaria? Small tree - 12 FT. FL. white. In heavy forest - ②

4584 - Salicornia - forming tall tangled colonies in wet, shaded places - ②

4585 - TAVIA ^{Catuaiana} - TREE - 60 FT. FL. white - ⑥

4586 - TREE - 60 FT. Reported as NOT BEING
USED FOR RUBBER - (3)

4587 - woody Herb - 8 FT. weak name - "Hui-chi-chi" (1)

4588 - VITEX ^{MASONIANA} TREE - 75 FT. on low rocky
ridges above River - fls. blue - Infrequent.
"pu-pu-chiki"

4589 - FICOS - TREE - 65 FT. Common along
RIVER BANKS - (3)

4590 - AEROLIA - TERRESTRIAL, on Steep Banks -
SPATTER DRAKE - spicix yellow - Infrequent. (1)

4591 - KORA CRAPATAN - fls. red - TREE 65 FT.
Common - (1)

DARLON Province -
Headwaters Rio Chaco - 750 FT. 6/12-13/47.

4592 - UREKA - Small tree - 20 FT. in wet, dark forest.
Fruits white. A wild name. (2)

4593 - THYMELAEAE ^{affocina variegata} TREE - 35 FT. fls. pink esp.
Cultivated by Chaco Indians - "Co-lo-Ho" (3)

4594 - TUSCACIA - HERB - 20 inches - fls. orange,
stripes darker orange - in *Bromus planusoides* - (3)

4595 - TREE - 30 FT. fls. yellowish tan - (2)

4596 - JACARANDA RHOMBIFOLIA - TREE - 45 FT.
Frequent - (1)

4597- *Renealmia* - 6 FT. BRACTS RED - ①

4598- *Capharis* - BRACTS RED - SHrub - 5 FT. ①

4599- *Melastomaceae* - SHrub - 10 FT. FRUITS RED - ②

4600- *Sapindaceae* - WOODY Liana - FRUITS RED - ③

4601- *Borchosia* - ^{CORNIFOLIA} TREE - 30 FT - FRUITS yellow - ③

4602- *Melastomaceae* - SHrub - 6 FT. FL. PINK - ②

4603- *Piper* - WOODY Herb - 20 FT. COMMON - ③

4604- *Dilleniaceae?* - TREE - 25 FT. FRUIT purple -
FL. pale green - ④

4605- *Benthamiaceae* - HERB - in banana plantations
FL. white - ②

4606- *Lamium* - short woody liana - buds brown -
FL. greyish brown - ⑩

4607- *Swartzia* - TREE - 40 FT. FL. yellow - ②

4608- *Coumarouna panamensis* - TREE - 120 FT.
FL. pinkish brown - FREquent - ⑧

4609- *Lipaphlymum* - Epiphytic - FLUIT Red - ①

4610- *Bocconia* - BRACTS RED - EDGES WHITE -
FL. white - SEE Koehneae - FREquent - ①

4611- *Cophea* - on rocky banks - in sun - FL.
purple - ④

4612- *Melastomaceae* - SHrub - 3 FT - on wet,
shady banks - FL. pink - ③

4613- GRASS - Common on gravel BARS - ①

4614- *Dorstenia* - on wet banks - "POM-POM" ③

Ranunculaceae

4615. TREE - 40 FT. FLs. white. Fairly frequent
along River banks on slopes or Banks ploughed. ①

4616. WOODY HERB - common on Bank Banks -
fls. white - ①

4617. TREE - 15 FT. FLs. orange - in Heavy FOREST - ②

4618. WOODY HERB - common on Bank Banks -
fls. yellow - ②

4619. TINY HERB - on wet, exposed Rocks - fls. lavender. ①

4620. Salicinella, common on wet Shaded Banks - ①

4621. RUBIACEAE - Creeping Herb - common on wet
FOREST floor - fls. white - ③

4622. RUBIACEAE - HERB - 24 inches - fls. white.
IN DARK FOREST - ①

4623. RUBIACEAE - TREE - 15 FT. fls. white - ③

4624. BENZINERIAE - HERB - 18" - fls. purple.
undersurfaces of leaves purple - ②

4625. Melastomae - TREE - 50 FT. fls. white - ③

4626. AURANTIACEAE - VINE - fls. yellow - ①

4627. Ochnaum - CULTIVATED BY CHOCO INDIANS -
USED TO RUB ON BODY DURING DANCES - ③

4628. Composite - GIANT WOODY LIMA - ④

4629. Caladium - VERY common on steep, shaded
BANKS - spathe white - ②

4630. TREE - 25 FT. fls. white, with yellow
stamens - fairly common in Heavy FOREST - ③
MAYNA longicuspis

4631 - TREE - TO 40 FT. FL. WHITE - FREQUENT -
"PU-LO'-NA" Quararibea tarocah YX (5)

4632 - TREE - 75 FT. FL. WHITE - BARK SMOOTH. TRUNKS
 AN OIL CAN OR BURNING SQUASH, PARTICULARLY FOR
 THE LOWER 6-8 FT. BRANCHES DROOPING, SLIGHTLY
 REMINDS ONE OF A COCONUT. VERY COMMON
 IN HEAVY FOREST. MAY BE LURE'S SQUASH
 TREE - QUARRARIBEA DARCIANASIS WOODSON (8)

4633 - CUCURBITACEAE: VINE - BRACETS SCARLET - FL.
 BROAD YELLOW - (5)

4634 - TREE - 40 FT. FRUIT YELLOW - (4)

4635 - ANNONACEAE - TREE - 12 FT. FL. GREEN IN
 DARK WET FOREST - (1)

4636 - MELIACEAE - TREE - 25 FT. FL. GREEN YELLOW -
 PROBABLY IDENTICAL WITH NO. 4625. (3)

4637 - CONVOLVULACEAE - WHITE - FL. PURPLE - (1)

4638 - BOMBACACEAE - WOODY LEAVES - FRUITS WHITE - (1)

4639 - LEGUMINOSAE: GIANT WOODY THORNY LEAVES - FRUIT
 ONLY & OFTEN PRICKY FL. (2)

4640 - RUBIACEAE - TREE - 30 FT. FL. WHITE - (3)

4641 - CRYPSOPHYLLEAE - COMMON FOREST LEAVES - 8-12 LINE
 FLOWERS - TRUNKS SPINY - 3-4" diam. "ESCOLA" (1)

4642 - LEGUMINOSAE - TREE - 65 FT. FL. WHITE -
 FREQUENT - Lavatera mucronata rotundifolia SCRATCHY (4)

4643 - DIOSCOREACEA - FL. DARK PURPLE - (2)

• PROTIVIN

4644- *Lippia* - tall slender tree in heavy forest -
RED - greenish BARK - "Ho-chi-chi" (3)

4645. *Qualea cymosa* - LEAVES - TREE - 100 FT. Fls. rose pink - (14)

4646 - *Acacia farnesiana* - tall woody vine, in trees 90 FT. tall. thick stem, sprays. 4-5"
Diam. Fls. white - (5)

4647 - Convolvulaceae - Vines - Fls. purple - (2)

NOTES TO HARR SENT 1000 000 7/14/47

CARRO TUTE - Region west of Santa Fe', Veracruz
3000 FT. Fls. Dumbosa June 24, 1947

4648- *Acropora* - Sepals pale cream, minutely spotted
red - petals rich red - column pale cream,
minutely spotted red. Lip orange, with dark
red tip - See photos, plate & pickle - (1)

4649- *Epidendrum* - G+ P. flower - lip white, red
lawnmower shape (see pickle) (1)

VCtg. Report - Encant. Road EAST of Rio Chico
4650-6500 ft. July 23, 1942

4650- *Sporadicia* - Shrub - 10 ft. Fls. white - ①

4651- *Lecocarpus* - Shrub - 10 ft. Fls. red - frequent. ④

4652- *Couposia*. Shoot hair - 6 ft. Fls. yellow. ①

4653- *Chlorodium*. Shrub - 12 ft. Fls. white & common. ③

4654- *Potentilla* - Shrub & shrub. 6 ft. Fls. white - ③

4655- *Astilbe* - Tree - 30 ft. on steep bank - ④

4656- *Hedysarum*, dark purple - Blads. scatter, fls. yellow -
Frequent - also near Larios & Bajo Mayo - ①

4657- *Lauraceae* - Tree - 50 ft. - ②

4658- Tree - 60 ft. - ④

4659- *Lauraceae* - Bushy Shrub - 8 ft. Fls. pink - ④

4660- *Lauraceae* - fls. pink & yellow - 3 ft. common - ①

4661- *Asclepias* - vine. fls. greenish yellow - ⑥

4662- *Pithecellobium* - Shoot many fls. - 5 ft. Fls. blue
& yellow - common - ②

4663- *Saurauia* - tree - 15 ft. fls. white - ③

4664- Tree - 60 ft. fruit bluish green - ④

4665- *Malacomeles* - tree - 30 ft. very common - ②

4666- *Lochmaea* - fls. yellow - 20 ft. - frequent. ①

4667- Tree - 40 ft. frequent - myrtaceous - ③

4668- *Epiphyllum* millef. - epiphyte - lip cream white - ①

Very. Fresh lava. FORESTO Valleys - (Elev. velo) 5000 ft.

July 24, 1947 -

4669 - Rubiaceae - low shrub. 6 ft. pink - ④

4670 - TREE - 40 ft. fls. creamy white - ⑥

4671 - SAUvAIA - Small multiple - flower tree 16 ft.
fls. white - frequent - ④

4672 - TREE - 120 ft. leaves green - ⑤

4673 - LORELLACEAE - Root shrub - 5 ft. fls. rose
pink - frequent - ①

4674 - XANTHOCHONEA Rosea - 6-8 ft. very common tree
stream bed - numerous corolla lobes - ②
sp. name - ③

4675 - CARIOTA - 20 ft. fls. pale yellow - fruits yellow,
about 6" in length & 5" in diameter - ③

4676 - TREE - 80 ft. - ③

4677 - Epiphytic bromeliad - very common in tops of tall
trees - ①

4678 - TREE - 40 ft. fls. yellow ^{NOT} orange - ④
sp. name - ③

4679 - CHILODIA - Shrub - 10 ft. common on sides of
lava flows - fls. white - ②

4680 - HERB - 3 ft. fls. yellow - very common - ③

4681 - RUBIACEAE - shrub - 10 ft. fls. yellow - common - ③

4682 - AEROLIA - Epiphyte - small tree - fruit red - ①

4683 - Datura - tree - 9.5 ft. - ⑨

4684 - MELIACEAE - tree - 25 ft. fls. pale pink - ④

4685 - CORNUS - 7 ft. berries + fls. bright yellow - ④

Rio Lino - Honduras - Fls. tan - wood 14, 1947. 1947

4686- *Maxillaria* - sp. yellow - dep Red - Brevar -
Very common on large trees near the Rio
Lino - ①

5 miles
Stony Plains, South of Bopari - 3000 ft.

July 22, 1947 | Remove the *Byrsinina*, *Catara*, *walteriana*
9 *Catua juncea* & there would be little left. ②

4687- Herb - Fls. pink - very common - ⑤

4688- *Melastoma* - shrub - 6 ft. Fls. blue - common - ③

4689- *Rubiaceae* - Creeping herb - on shaded banks and
streams - fls. blue - fruits black - common - ⑥

4690- Herb - fls. purple - common - composite - ⑤

4691- *Rubiaceae* - fls. white - very common - ④

4692- *walteriana* + woody herb - 2-3 ft. fls. lavender -
very common - ②

4693- *Byrsinina* - tree - 35 ft. very common along small
streams - ③

4694- *Rubiaceae* - herb - fls. white - common - ④

4695- *Cosmibium* - tree - 30 ft. fls. white - common - ④

4696- *Rubiaceae* - shrub - 8 ft. fls. white - frequent along
small streams - ④

4697- *Acalypha* in colonies on shaded banks along
small streams - upper two banks red - lower 3 white - common - ④

4698- *Achimenes* - fls. blue - on shaded banks along
small streams - ②

4699- Shrub - 10 ft. fls. cream yellow - common - ④

4700- Tree - 35 ft. fls. black - frequent along
streams - ③

4701- *Russelia* - herb - 5 ft. fls. red - frequent - ②

- 4702 - woody vine - Fruits orange & fragrant - (2)
- 4703 - Epidendrum ciliolae - fls. white - frequent - (2)
- 4704 - Shrub - 10 ft. fls. white - (6)
- 4705 - Piper - HAB. - 4-6 FT. stems red - frequent - (11) ^{grows}
Spices well -
- 4706 - Canavalia - sp. fl. creamy white - lip yellow -
Common along small streams - (9)
- 4707 - Loranthaceae - parasitic shrub - 3-4 ft. minute white - common - (5) ^{in winter fruits orange}
- 4708 - Annona muricata - tree - 30 ft. ^{fairly} frequent - (4)
- 4709 - tree - 30 ft. ~~to~~ common along small streams - (3)
- 4710 - woody herb - 24-36" - fls. salmon red - common - ^{rare}
also at 4000' - (4)
- 4711 - Fern ally - common on rocky slopes - water - David + ^{on slopes}
on slopes - (2)
- 4712 - Laurus - fls. yellow - frequent - flowers? - (5)
- 4713 - Miconia attenuata - tree - 25 ft. very common - (1)
- 4714 - tree - 35 ft. frequent - (2)

Very, Finca La Pota - 6500 ft. 7/21/47
(Fila laura)

- 4715 - EPIDENDRUM BRASSAVOLAE = frequent - (1)

Elavito Barrios ~~to~~ 1 mile south of Bogotá -
4000 ft. 7/20/47

- 4716 - CROTON - tree - 30 ft. frequent - white - (3) ^{red}
- 4717 - tree - 35 ft. fls. pink - frequent - (6)
- 4718 - shrub - 12 ft. fls. pale yellow - frequent - (4)
- 4719 - small tree - 20 ft. fls. white - frequent - (5)

4720 - *Couepia* - woody shrub - 3 ft. - fls. white - common - ③
 4721 - *Couepia* - shrub - 9 ft. fls. white - ⑪
 4722 - *Pithecellobium* - tree - 40 ft. common ^{thickets & thickets} ^{on slopes & valleys} - ③
 4723 - *Bertia* - tree - herb - fls. white - common ^{in pastures} - ⑦
 4724 - *Lobelia* - slender - fls. white, sp. isq. central yellow stripe.
 foliage small colored in shade - under shrubs - ③
 4725 - *Solanum* - sap. white - lf. white - common in
 throat yellow - woolly - with brown flecks - very
 common - thousands of plants on steep banks in
 grass - all flowered on same day - SEE PHOTO ②
 4726 - stout composite - 6-8 ft. very common along roads - ③
 4727 - *Epidendrum* - poor will - ep. shrub - very common - ②
 4728 - *Shrub* - 6 ft. fls. yellowish green - frequent - ④

VOLY. FINCA LAKON - 5000 FT. 7/21/47

4729 - *Mimosa* *Strobilifera* - bushy tree - 40 ft. fls. white - ③
 4730 - *Oxybaphus* *quercinus* - tree - 6 ft. fls. white.
 fruits orange - "Palo Abona" very common ⁱⁿ pastures
 in second growth - ⑥

FORESTED SOUTHERN

very. Rock ledges - upper ridges of the Velo -
Along coffee - 5000 ft. July 25, 1947.

4731 - Qualeus - TREE - 80 FT. ⑧

CODERA RUBRIFLORUS - trunk 2 1/2 m. diam.

4732 - Lecourea - 7000 ft. FL. RED - Common - ④

4733 - Acalypha - fls. pink + longish - common weed in coffee + here ④

4734 - Tree - 60 ft. fls. white - frequent - ⑥

4735 - Rubiaceae - Shrub - 12 ft. fls. yellow - frequent - ③

4736 - Tree - 75 ft. frequent - ⑦

4737 - Tree - 65 ft. fls. yellowish brown - ⑦

4738 - Lecourea - 7000 ft. ③

4739 - Ardisia - small tree - 8 ft. ②

4740 - Bemaroxylon - shrub 8 ft. B. white - 8 ft. ①

4741 - Tree - 15 ft. ⑤

4742 - Corchorus + tree - 4.5 ft., common - ④

4743 - Lockhartia - fls. yellow - 2 lower segms & crest - 7000 ft. - 3 ft. ③

4744 - Rubiaceae - Epiphytic shrub - 6-8 ft. fls. - ⑫

4745 - Rubiaceae - Shrub - 12 ft. fls. pale pink - common - ④

4746 - Rubiaceae - Shrub - 12 ft. fls. purple - common - ④

4747 - woody herb - 6 ft. fls. yellow - ③

4748 - Gesneriaceae - Shrub - 6 ft. fls. orange - ⑨

4749 - Lycaea - fls. red - petals white - lip white - ③

4750 - Epidendrum primulinum - fls. yellow - 3000 ft. latitud.

Flowers lose tip leaves - purple - back with 5

oblique w/ the numerous few years - said by

them 40, 100 ft. tall - flowered at Linda - ④

4751 - CAREX - GRASS - 120 FT. 5-6 FT. DIA. FRAGRANT. ⑥

4752 - LOMANTHUS - very bushy parasitic shrub - 15 FT.
leaves GREENISH TAN - very common ⑤

4753 - SHRUB - 8 FT. FL. CREAMY WHITE - 1000 FT. ①

4754 - LOMANTHUS - WOODY HERB - 8 FT. FL. BRANCHES - ⑥

TOWN SARDINA

FOREST RIDGES SOUTH OF PINEA LAKES - 6000-7000
MUCH OF THIS IS SECOND GROWTH - 20-30 yrs.

4755 - DICRANOGRAPHS - FL. RO. PT. - VERY COMMON - ^{IN BONNY} MEAD ②

4756 - TALL, SLender TREE - 60 FT. FL. WHITE - FREQUENT, ⑩

4757 - ERYTHROXYLAE - TREE - 65 FT. FL. RED - VERY COMMON. ⑦

4758 - TANAKA - SHRUB. white. LF yellow - very common
in mixed w. ERYTHR. white. SEE ALSO - ⑨

4759 - Smilax - SWEETGUM - FRUIT ORANGE. ②

4760 - TREE - 35 FT. ⑥

4761 - VINE - FL. white - common in FOREST AREAS - ⑩

4762 - LANTANA - SHRUB - 6-8 FT. FL. white - common in FOREST AREAS - ^{common in FOREST} ②

4763 - COLUMNAR - BUSHY Epiphytic SHRUB - 3-5 FT. FL. -
TAN INTERNODES. SWOLLEN AT MOST AREAS IN NOVEMBER - ④

4764 - LOCH MARTHA - FL. yellow - PRO - very rare - petals & nest young ③

4765 - BROMELIA - ON OAKS - very common. SEE ALSO - ④

4766 - EPIPHYSIS DIFFERENT - FL. GREEN - FREQUENT - ②

4767 - CORNUS - TREE - 50 FT. - FREQUENT - ⑥

4768 - SMALL BUSHY TREE - 8-12 FT. common on SARDINA - ⑭

4769 - Loranthaceae - parasitic Shrub - 18" - spraysly branched -
Flwrs white - long SARDINA - (2) Flower buds 10000/m2.

4770 - Composite - Herb - Fls. yellow - very common on
long SARDINA - & Cocks comb - (4)

4771 - Shrub - 8 FT. Branches red - Fls. red - tipped white -
common on SARDINA - (6)

4772 - Bromeliads - Epiphytes of Polinesia - FREED

4773 - Balanophoraceae - Root parasite - remains colourless
under leaves - flower dark blue - 5' tall - Report - (9)

4774 - Balanophoraceae - Root parasite - (3)

43 nos.

215

westeran slopes of Cerro Horqueta -
Bajo muro - Robito rd. to Cerroventah
divide - 5000 - 7000 ft. July 29, 1947

4775 - Myrsinaceae - tree woody liana - in tops of
trees - 120 ft. Fls. white - (4)

4776 - CINCHONA - ? tree 10' 65 ft. - often flowered
freely at 15 ft. Fls. pale pink - Report - (14) FRAGRANT.

4777 - Solanaceae - woody liana - fls. yellow - (2)

4778 - Euphorbia MORISONIS - tree 30 ft. fls. purple - (2)

4779 - TREE - 30 ft. Fls. pale yellow - (2)

4780 - HAB - 6 ft. Fls. red - Cleome - (6)

4781 - BOEA DIABOLICA - epiphytic Herb - 10 ft. - fls. white - (3)

4782 - Smilacina - 6 ft. Fls. white - (2)

4783 - MAXILLARIA - fls. yellow - (5)

4784 - BIGNONIACEAE - HERB - 6 FT. FL. ORANGE - (3)

4785 - TREE - 25 FT. FL. DARK ROSE PINK - (9)

4786 - Drymonia - Epiphytic Herb - fls. yellow - (5)

4787 - Xylocarpus elongatum - fls. pale yellow - (1)

4788 - CECOMYIA - Epiphytic fls. yellow. FRUIT RED
BLOOMS ON LEAVES. (3)

4789 - EPIPERMUM - fls. tan - (5)

4790 - SOLANACEAE - THICKSIDE HERB - fls. blue - crimson - (4)

4791 - HERB - 6 FT. fls. blue & yellow - (1)

4792 - CENTROPODUM - woody Herb - 5 FT. FL. ORANGE - (1)

4793 - BOMBOEUS - VINE - fls. red - SEEDS SCARLET - (5)

4794 - EPIDEMORHUS - S & P. GREEN - leaff white - (2)

4795 - LYCOPODIUM - FORMICARIA COLONIAS CARLOS STRUPP PARIS - (4)

4796 - STALI'S - fls. dark purple - (2)

4797 - SWertia - TREE - 18 FT. FL. white - (1)

4798 - Composite - Herbs 8 FT. fls. yellow - (3)

4799 - DINNERRA - Tree - pink - (1)

VCTY. BATO MEVO - CHIQUIJIT PROVINCE - 5000 FT.

AUGUST 7, 1947

4800 - CORN - white - "OALTANO"

4801 - CORN - yellow -

Rosado Field - northern slopes of Cerro Mariposa -
6000 - 7000 FT. BOCA DEL TORO PROVINCE - 8/6/47

4802 - ANNONACEAE - TREE - 100 FT. FL. GREEN - ⑧
20-70% OF LEAVES -

4803 - EPiphytic SHRUB - 12 FT. FL. pale greenish yellow - ③
IN TOPS OF TREES

4804 - EPiphytic SHrub - 6 FT. FL. pink - ⑧
Flowers red -

4805 - cycads - epiphytic tree - Common - ①

4806 - Hemitelia - Riccia - many hairs - 5 FT. Lvs. yellow - ②
Branches with purple

4807 - ERICACEAE - epiphytic shrub - 3 FT. Lvs. brownish - ④

4808 - ERICACEAE - Epiphytic branching shrub - 15-18 FT.
4 calyx cold las pink - ⑨
petals vivid pink - fls. pale yellow -

BATO MEVO - Rosado Field - 6500-7000 FT. 7/6/47
western slopes of Cerro Mariposa - CHIQUIJIT PROVINCE

4809 - Berberis - stout herb - 5 FT. Lvs. white - ③

4810 - LOBELIACEAE - Thickside slender herb - 3 FT. FL. purple - ①

4811 - LOBELIACEAE - herb - 4 FT. Lvs. purple - ①
growing hairy

4812 - POLYGONACEAE - woody vine - FL. GREEN - ①

4813 - Composite - Shrub - 6 ft. Fl. white - (4) ●
 4814 - Herb - 12" ^{CROCIFERAE} - fl. white - common - (1) ●
 4815 - Thlaspi - Epiphytic - Shrub - Red - (1) ●
 4816 - Fuschia - Shrub - 4 ft. Fl. red - (4) ●
 4817 - Melastomaceae - Shrub - 4 ft. ^{Rachis &} Fl. pink red - (10) ●
 4818 - Lobeliaceae - Epiphytic Herb - 2 ft. Fl. purple
purple - very conspicuous & frequent. (4) ●
 4819 - Melastomaceae - Shrub - 6 ft. Stems with red flowers
Fl. red - (5) ●
 4820 - Columnar - Terrestrial on rockside banks or
Epiphytic - fl. red - frequent - (6) ●
 4821 - Composite - woody Herb - 10 ft. Fl. purple - (4) ●
 4822 - Epiphytic shrub - 6 ft. Fl. bright orange ^{FREQUENT.} (5) ●
 4823 - Melastomaceae - Shrub - 6 ft. Fl. pink ^{RACHIS LEAVES} - (3) ●
 4824 - Caprifoliaceae - ^{woody} Herb - 4 ft. ^{BRACTS PROUD & BROWN} Fl. purple - frequent. (6) ●
 4825 - Urticaceae - Fluffy Herb - 2 ft. Fl. white - frequent - (5) ●
 4826 - Dipterocarpaceae - Herb - 4 ft. ^{calyx red} Fl. yellow - (4) ●
 4827 - Composite - Shrub - 2 ft. Fl. white - (2) ●
 4828 - Solanaceae - Tree - 12 ft. ^{Fl. white} Common - (2) ●
 4829 - Rosaceae - Shrub - 8 ft. ^{3 ft.} Fl. cream yellow - (1) ●
 4830 - woody Herb - Glabrous Herb - buds white - (1) ●
 4831 - Tree - 30 ft. Fl. pale pink - frequent - (5) ●
 4832 - Tree - 60 ft. Lauracea - (5) ●
 4833 - Columnar - Epiphytic - ^{Pandulous} Shrub 8 ft. ^{fl. red} - (12) ●

Valle. Juan Diaz - Rio Chico - 8/20/47 collection
By Haro Tapio

4834 - Bromeliads - common on cedar trees - Fls. blue - ②

Palo muñón - Río Chico - 5000-7000 ft. 7/22/47

4835 - Rubiaceae - Common roadside Herb - Fls. white - ③

4836 - Lobeliaceae - roadside herb - 2 ft. Fls. red ^{fruits} white - ④

4837 - Diococlea - vine - Fls. green - ④

4838 - Loranthaceae - parasitic shrub - 8 ft. in tops of trees - ⑤

4839 - Tree - 7.5 ft. Fls. white - ⑥

4840 - Eriocaulaceae - S. & P. tree - blossoms brown - lvs. white - ①

4841 - Ericaceae - Epiphytic shrub - 5 ft. flowers purple - ③

4842 - Tree - 120 ft. near continental divide - ⑤

4843 - Melastomaceae - tree - 60 ft. 7000 ft. - ⑥

4844 - Tree - 100 ft. 7000 ft. - ③

4845 - Ericaceae - Epiphytic shrub - fls. pink - common in tops of trees - ⑦

4846 - Lauraceae - tree - 120 ft. "Sacha" Fls. red - 7000 ft. - ⑩

Haro del Volcan - 4500 ft. Chiriquí Province
August 3, 1947.

4847 - Convolvulaceae - Fls. rose pink ^{red} common - ⑥

4848 - Ipomoea - ? - Fls. blue - Evolvulus? - ⑤

4849 - Habenaria - fls. pale yellow - very common - ⑥

4850 - Rubiaceae - fls. pale pink - common - ③

4851 - Tree - 30 ft. Fls. pink - ON ROAD TO BANOS. IN
HAGUE FOREST. - ⑮

4852 - LORNA - PROSTRATE HERB - FLs. ORANGE - (2)

4853 - SALSIS - 3 FT. FLs. BLUE - (6)

4854 - WOODY HERB - 3 FT. FLs. PINK - (5)

4855 - CROTON - SHRUB - 4-6 FT. VARY COMMON - FLs. WHITE - (5)

4856 - LAURACEAE - TREE - 20 FT. FLs. INTEGRAL - IN MONT. WOODS. (11)

346

BALO MONO - RODA'S MILE - 7000 FT. 7/29/47

4857 - HEDWIGIA - EPHYTIC - ST. DARK GREEN - SPUR
TIPPED GREEN - (SEE PICKLE) (1)

NORTH FACE OF

CERRO COPARE - AN EASTERN SPUR OF CHIRIQUI
VOLCANO - 8000' FT. 7/29/47

4858 - PROSTRATE HERB - (6)

4859 - TREE - 40 FT. FLs. WHITE - FRAGRANT - (5)

4860 - ERICACEAE - LAX SHRUB - TERRAINIC, ON FOREST
FLOOR - FL. PINK, TIPPED WHITE - POSSIBLY FALLEN
TRUNK - (1)

4861 - POACAE - GRASS - THIS IS THE DOMINANT PLANT
HERE. ABOUT 7500 FT., FORMING NEARLY pure STANDS
ON THE NORTH FACE OF VOLCANO, AND IN THE
EASTERN SLOPES OF THE VOLCANO. (3)

4862 - ROSACEAE - TRAILING HERB - FLs. PINK -
FORMING A DENSE WHITE - (6)

4863 - BROMELIAD - LEAVES RICHLY MARKED DARK RED - VARY
COMMON & CONSPICUOUS ON OAKS FROM 6000 FT. TO 14000 FT. (1)

4864 - Composite - woody vine - fls. yellow - (2)
 4865 - Composite - herb - 5 ft. fls. white - (3)
 4866 - Shrub or small tree - 12-15 ft. fls. pink - (1)
 4867 - Tuberous root - red, green - (4)
 4868 - Eriocaulum - epiphytic - fls. dark brownish purple - (See pickle) (1)
 4869 - Tree - 40 ft. fls. white - (5)
 4870 - Ericaceous shrub - 8 ft. in oak forest - fls. white - (3)
 4871 - Phytolacca - very woody perennial tree - 8 ft.
 fls & fruits purple - very fragrant - (2)
 4872 - Melastomaceae - shrub - 8 ft. fls. pink - common - stems red - very
 (2)
 4873 - Lecanopteris - tall - tree-like - 4 ft.
 fls. yellow - may common in oak forest - (2)
 4874 - Melastomidae - tree - 50 ft. fls. white - very common ALTA (3)
 4875 - Chilcopteris fern - in oak forest - (1)
 4876 - Filmy Fern - terrestrial - frequent in bamboo - (3)
 4877 - Bamboo - 30-40 ft. - clumps of 20-30 canes -
 very common in oak forest - also in
 bamboo oak redwood - (4)

Summit of Cerro Copete & west face - 9000 ft.
 7/29/47

4878 - Iridaceae - fls. blue - very common - (4)
 4879 - Smilacina glaucescens - fls. white - (3)
 4880 - Tree - 20 ft. fls. yellow - (4)

4881- FERN - Fernmoss stout plant - very common. ①

4882- ERICACEAE - SHRUB - 6 FT. FL. PINK. ④

4883- LORIMERIA - TREE - 10 FT. FL. TAN. ⑤

4884- COMPOSITE - BUSHY HAB. - FL. pinkish lavender.
very common on BAKER SW FACE. ⑥

4885- SHrub - 5 FT. FL. RED - frequent. ⑥

4886- CASTILLEJA - BARKS RED - very common. ③

4887- Satureja - HAB. - FL. BLOD - very common. ②

4888- ERICACEAE - TREE - 30 FT. FL. pale pink. ③

4889- LYCOPODIUM - ON BANKS IN BAKER SW FACE. ③

4890- LYCOPODIUM - IN Heavy SPROUSE. UNDER OAKS. ③

4891- ERICACEAE - SHRUB - 10 FT. FL. RED - TYPHO
WILDE - CORYNOMAL ^{WENIGERMANIA}. ⑥

4892- TREE - 12 FT. FL. PINK - FRUITS RED - frequent. ③

4893- ERICACEAE - SHRUB - 8 FT. FL. RED - TYPHO
WILDE - FREQUENT. ⑦

4894- ERICACEAE - TREE - 8 FT. FL. white. ③

4895- ALNOS - TREE - 40 FT. - very common on
NORTH EASTERN FLANKS OF CHIRIQUI VOLCANO - TROPICAL
FOREST WOODS ABOVE OAKS & INTEGRATED WITH
them, COMPASSION 18000 FT. 0°-10° E. BAKER
PLAINING INTO MOUNTAINS
STAND IN THE 8-10,000 FT. ZONE - 7. DEC 1981. ⑤

4896- MAGNOLIAS - HAB. - FL. white. ②

4897- FUCHSIA - SHRUB - 8 FT. FL. RED. ③

4898- PARVETIA - FL. purple - very common. ③

Polygonace

4899 - SHrub - 6 ft. Ht. - flowers yellow - ②

4900 - Herb - ^{Hedysarum sp.} Ranunculaceae - Flowers yellowish in
shade near summit - common - ⑧

4901 - Ericaceae - SHrub - 6 ft. Ht. - flowers yellow
white - common - ③

4902 - ~~Mimulus~~ ^{Monotropa} uniflora - woody herb - 5-8
ft. tall - white flower - frequent at south slopes of
BARKER Mtn face of Corte - about 4800 ft. about 5 ft.
also in dense oak forest on north face where
the plants formed 6-8 ft., but evidently
flower at a later season - ③

4903 - Epimedium - Fl. tan - in small tufts on south - ②

4904 - Epimedium - Fl. tan - (See prickly) ①

4905 - Odonostylis - Fl. white, with dark streaks &
spur on labellum - ②

4906 - ~~Leskeas~~ ^{Leskeas} - Epiphytic Herb - 6 ft. tall.
yellow - in OAK FOREST same as 4873 - ④

4907 - Melastomaceae - Fl. white - 35 ft. tall. white.
Frequent in OAK forest - ③

Very. Bajo Komo - 6000 ft. 7/27/17

4908 - Passifloraceae - ②

Bocas del Toro Province - La Calle trail - Northern
Slopes of Cerro Horqueta, 6000-7000 ft.

August 5-7 - 1947

4909- Calceolaria - Fls. yellow - (8)

4910- Elleanthus - Epiphyte - 3 ft. S. tip.
BRISTLE purple - Lip pink white - Common - (5)

4911- ^{Loranthaceae} Tax HARB. - 4 ft. Fls. pink - Tipped - (11)

4912- Epiphytic FERN - (2)

4913- URTICACEAE - HARB. - 6 ft. Fls. white - (5)

4914- URTICACEAE - HARB. - 3 ft. - (7)

4915- URTICACEAE - 1 1/2 ft. Fls. white - (1)

4916- SOLANACEAE - HARB. - 6 ft. Fls. pale pink - (4)

4917- ^{MELASTOMACEAE?} HARB. - 2 ft. Fls. white - Common - (1)

4918- ERICACEAE - Epiphytic shrub - 8 ft.
Fls. scarlet - (1)

4919- BURSERACEAE - Shrub - 8 ft. Fls. white - (3)

4920- BROMELIACEAE - Fls. yellow - Spots red brown - (1)

4921- RUBIACEAE - Small tree - 8 ft. Flowers blue -
Bristle BRISTLE yellow - (5)

4922- BONARIA - Fls. red - Common vine - (2)

4923- CANTROPORON - Tax. woody HARB. - 4 ft. Fls.
Scarlet, tipped yellow - common - (7)

4924- DESMERAIAEAE - HARB. - 3 ft. Taller than others
Epiphytic - Fls. yellow - Common - (5)

4925- ARALIACEAE - Epiphyte - Shrub - 12 ft.
Fls. white - (4)

4926 - Composite - vine - in tops of large trees

Fls. white

(4)

4927 - Composite - Epiphytic - treeless shrub - 10 ft.

Fls. pink - frequent frequent & conspicuous - (6)

4928 - Passiflora - Fls. pale green with purple stripes - (8)

4929 - Rubiaceae - SHrub - 8 ft. Fls. lavender - (7)

4930 - Nasturtium - vine - Fls. yellow with ^{dark} spots - (5)

4931 - Smilacina - Fls. white - 9 ft. Common - (2) See photo

4932 - ^{LANTERNACEAE} Epiphytic Shrub - 6 ft. Fls. white - (3) In tops of large trees -

4933 - Thlaspiodiscus? - vine - fls. green - frequent - (5)

4934 - Ericaceae - Epiphytic Shrub - 10 ft. Bracts dark
pink - fls. very pale pink - (4)

4935 - Columnea - Epiphytic - fls. salmon red - frequent - (2)

4936 - Centropogon - HERB - 6 ft. fls. pink. See Kauai - (2)

4937 - Acanthaceae - HERB - 6 ft. fls. green - (5)

4938 - Begonia - 4 ft. fls. white - (4)

4939 - Acanthaceae - HERB - 6 ft. fls. salmon red - (1)

4941 - Shrub - 8 ft. fls. pale yellow - (8)

4942 - Melastomaceae - tree - 15 ft. fls. white - (4)

4943 - Begoniaceae - HERB - 3 ft. fls. yellow common - (9)

4944 - Leguminosae - HERB - 3 ft. fls. pink common - (7)

4945 - Jussiaea - HERB - 8 ft. fls. yellow - (4)

4946 - woody Herb - 10 ft. fls. bright pink -

Frequent, Wai'anae

(11)

4947 - Rosaceae - woody Branched Herb - 6 ft.

fls. orange ^{red} Frequent -

209

4948- Colubrina - Epiphytic - in tops of tall trees -
Bog. L. - very conspicuous - (see Koontzome) (3)

4949- Styrax - Sepals purple - petals dark crimson -
lip purple - (4)

4950- Piper - Herb - 3 ft. (1)

4951- Lobeliaceae - Herb - 3 ft. Fl. green - (2)

4952- Lobeliaceae - Herb - 3 ft. Fl. dull brownish
purple - frequent - (4)

4953- Solanaceae - Herb - 4 ft. fls. white - (5)

4954- Composite - TREE - 40 ft. fls. purple - frequent - (4)

4955- Solanaceae - Herb - 8 ft. fls. greenish white - (1)

4956- Herb - 6 ft. fls. silver blue - (3)

4957- Solanaceae - Herb - 6 ft. fls. yellow - (2)

4958- Sedge - (6)

4959- Oeceoclades - vine - fls. green - (3)

4960- Browallia - epiphytic - in tops of tall trees -
blues fls. common - (1)

4961- Gesneriaceae - shrub - 8 ft. fls. green - frequent - (3)

4962- Hoffmannia? Herb - 8 ft. fls. yellow - (2)

4963- woody herb - 6 ft. fls. white - minute - (3)

4964- Rosaceae - Persicaria - calyxes bright yellow - (2)

4965- Fuchsia - woody herb - 3 ft. fls. red - (5)

4966- Oenopanax - TREE - 40 ft. fls. yellow - (6)

4967- Melastomaceae - TREE - 40 ft. fls. blood
red - fairly frequent - Stems purple - (18)

- 4968- SWA. - TREE - 8 FT. FL. white - (5)
- 4969- HAB. - PL. green - Common in wet places & ^{about} river. (6)
- 4970- CHILOEAN - SHRUB - 8 FT. FL. white - (6)
- 4971- COLOMBIA - EPHYTIC - fls. Scarlet - (1)
- 4972- SPOONER TREE - 40 ft. thick - SEEDS FREQUENTLY shown (4)
- 4973- HELICONIA LINDLEYI - 6-8 ft. very common - BRACTS LEAVES RED - BRACTS
This was the only Heliconia seen on the slope. (6)
- 4974- ERICACEAE - EPHYTIC SHrub - 8 FT. purple - fls. purple - PRESENT - CALYX BLOOD RED - COMMON - (4)
- 4975- BESNERIA - HERB - 4-5 ft. Cymes pink orange - (7)
- 4976- BESNERIA - HERB - 3-4 ft. calyx yellow - BRIGHT yellow - (8)
- 4977- FERN - (2)
- 4978- HERB - 3 ft. TENTATIVE? - (2)
- 4979- METASOMA - SHrub - 3 ft. fls. BLOOD RED - (1)
- 4980- BESNERIA - BUSHY HERB - 2-3 ft. fls. white - ^{about} STEAMERS - (7)
- 4981- BESNERIA - HERB - 3 ft. Cymes orange - CALYX RED - (5)
- 4982- BESNERIA - EPHYTIC - fls. Rose RED - 4 BRACKETS - (1)
- 4983- CHILOEAN? BUSHY EPHYTIC SHrub - 30 ft. fls. white - IN TOPS OF TREES - (11)
- 4984- RUBIACEAE - EPHYTIC SHrub - 18" fls. pale pink or white - IN TOPS OF BUSHES - (12)
- 4985- BESNERIA - HERB - 5 ft. fls. white - (5)
- 4986- ERICACEAE - EPHYTIC SHrub - 5-6 ft. fls. pink in tops of BUSHES - (6)
- 4987- BESNERIA - HERB - 2 ft. fls. pink white - (3)

4988 - Melastomaceae - Herb - 40 ft. 1/28 - pale
 white - frequent - (see Kodachrome) (3)

4989 - Capitellid - Herb - 3 ft. leaves various purple
 tgs. purple - frequent - (3)

4990 - Melastomaceae - Rose bushy epiphytic shrub -
 30 ft. in trees or giant trees - (4)

4991 - Tree - 60 ft. Adonis? (4)

4992 - Melastomaceae - tree - 35 ft. bl. pale
 pink - (3)

4993 - Rosaceae - Herb - 4 ft. more upright &
 larger purple - frequent - (3)

4994 - Lobeliaceae - Herb - 3 ft. bl. purple - (3)

4995 - Solanaceae - Epiphytic herb - stems
Habit of a climber.
 perfoliate - bl. pink - frequent - (2)

4996 - Gesneriaceae - Epiphytic herb - stems -
 8 ft. bl. pink - on sides of mts
in hairy places (15)

4997 - Trailing herb - bl. white - frequent

4998 - Phytolacca - herb - 6 ft. very common - (2)

4999 - Composite - woody herb - 10 ft. bl. bright
 yellow - very frequent - (see Kodachrome) (2)

5000 - Smilacina - trailing or epiphytic -
 on 10 ft. bl. white - (see Kodachrome) (1)

5001 - Melastomaceae - Epiphytic shrub - 6 ft. (1)

5002 - Melastomaceae - trailing herb - common in
 wet places more thick - (5)

5003 - *Hedysarum* - Bushy herb - several 5' & 10' cymes
Branches 8-10 lvs. flowers - 1-70' 3 in. racemes
inflorescences: very common - tangled with the
Pinus Densiflora which it could easily make
up 95% of the flora of galleries, and a very
conspicuous element in the vegetation. ①

5004 - *Gunnera* - fairly frequent in wet places above 3000 ft.
Stems - 10 ft. Some leaves are deeply lobed while
of the present specimen - ①

5005 - *Comptonia peregrina* - HAB - 2 ft. fls. pinkish brown.
Common - ④

5006 - *Melastoma* - tree - 30 ft. fls. white - ⑥

5007 - Composite - tree - 5 ft. fls. yellow - ①

5008 - *Brahmaea* tree - HAB - trunk covered in epithelia.
2-3 1-in. fls. greenish yellow flower ④

5009 - *Bocconia* - woody shrub - 10 ft. flowers - very
①

5010 - Composite in HAB - 1 ft. fls. yellow - ②

5011 - *Sambucus*? - tree - 50 ft. fls. white - ⑤

5012 - *Piper* - stout herbs - 4 ft. Common - ②

5013 - *Epidendrum* - fls. pinkish white - 2000 ft. ①

5014 - TREE - 50 ft. fls. white - ③

5015 - *Solyma* - woody herbs - 10 ft. fls. orange -
very common and conspicuous - ④

Cerro Takara Chiriquí - very thick - cloud forest

Province - 1000 ft. August 1, 1947

5016 - Bromelias - Common on Oak Park Roads -

Figs. Salinas Rd - 1000 ft. Aug 1, 1947. (6)

5017 - Lubiaceae - tree - 15 ft. Rd. 0482 - (6)

5018 - TREE - 20 ft. (4)

5019 - TREE - 50 ft. - 2000 ft. (4)

5020 - Cecropia tree - 40 ft. Rd. 0482 - (6)

5021 - Heliconia 12 ft. Blts 78 - Rd. 0482 - (6) only tips exserted.

(SEE KODAK BROWN) Inflorescences long elegant 8 ft. (6)

5022 - Apocynace - TREE - 85 ft. Flowers yellow - 8000 ft. (16)

5023 - Bactris - Stoloniaceae - Avocado 6 years

10 ft. Frequent - in dry forest.

PASTURES & RIVER BANKS EAST OF CERRO TAKARA - 800 ft.

Very, Dulaca - Chiriquí Province - 500 ft.

July 31, 1947

5024 - TREE - 30 ft. in Forest about River. (4)

5025 - Lorantheaceae - parasitic - 2 ft. (3)

5026 - Picris - Spilanthes - 45 ft. Frequent in pastures (2)

5027 - Euphorbia - Shrub - 8 ft. Rd. white. (4)

5028 - woody vine - Fruiting Rd - (5)

5029 - Commelinaceae - tree - 4 ft. Rd. blue - (3)

5030 - TREE - 30 ft. (4)

very, or ~~but~~ ~~but~~ mostly in pastures or ~~near~~
grass, with belts of what looks like original forest
continued mostly to the stream banks. West of town
there is an irregular strip of short grass land
running roughly east & west - bounded by typical
dryland scrub woods -

- 5031- Bignoniac - tree - fls. purple - ③
- 5032- CORDIA HUMILE - 30 ft. - common - ②
- 5033- CHYNOCHIUM - TREE - 65 ft. Common
VIRGINIACIA - CORNUTA - ③
- 5034- Shrub - 12 ft. fls. blue - ①
- 5035- Dillenia - woody vine - fruit orange -
very common in horse - ②
- 5036 - TREE - 30 ft. fruit orange - flowers - very common - ④
- 5037 - woody herb - 4 ft. fls. purple - ②
- 5038 - Lauraceae - TREE - 40 ft. - ②
- 5039 - MELANTHIA - fls. yellow - Common - ①
- 5040 - Aristochetia - shrub - 3 ft. junks tan
ORNGHT inner ~~outside~~ yellow - outer corolla pale cream - ②
- 5041 - Epiphytic fern - 5 ft. tall - ②

CHIKIWI PROVINCE

Mano west of Soataca - 500 m. 8/2/47

- 5042 - Tree - fls. pure white - ①
- 5043 - TURNERIA - lvs. 15 ft. yellow - Common - ④
Common here
- 5044 - Lecoue - prostrate herb - 2 ft. flower - red - ⑤
- 5045 - Herb - 3 ft. fls. white - common - ③
- 5046 - weed - fls. white - common - ②
- 5047 - Rubiaceae - prostrate herb - fls. white -
common - ⑥
- 5048 - Passiflora - ③
- 5049 - ARALIACEAE - TREE - 40 ft. fls. greenish white - ④
- 5050 - Lecoue - prostrate herb - fls. yellow - common - ④
- 5051 - DIOSCOREA - vine - fls. red - ②

5052 - Polygalaceae - Common Herb - 5 ft. tall - (6)

5053 - Rubiaceae - Herb - 5 ft. tall - Common - (3)

Cerro del Rio, Morelos, Mex., surface.
Altitude = 1000 m. 8/1/47

5054 - Shrub or woody tree - 8 ft. Fls. red.
very common - Polygalaceae - (3)

5055 - Rubiaceae - SHRUB - 12 ft. Fls. pink - (5)

5056 - Solanaceae - VINE - Fruits red - (2)

5057 - Rubiaceae - TREE - 12 ft. common
^{annual} - (1)

5058 - TREE - 10 ft. - (4)

5059 - TREE - 65 ft. - (3)

5060 - Piper - TREE - 20 ft. very common - (4)

5061 - Lauraceae - TREE - 25 ft. very common - (1)

5062 - Vitaceae - Fls. yellow - Common - (3)

5063 - Urticaceae - TREE - 12 ft. Fruits orange - (2)

5064 - Malvaceae - SHRUB - 8 ft. Fls. pink - Common - (3)

5065 - Heliconia - TALL, few flowers - Bracts red -
tips yellow - Frequent - (1)

102

NOTES TO HERB SALT WOODS

Sept. 15, 1947 -

Loma de la Tigrera - Reserva Natural El Valle 1000 m
3000 ft. Fls. 8/18/17

5066- Spathiphyllum wachsii - Segments above purple
or outer segments greenish or white sometimes -
petals & lip rose or purple - (See Pickle) ③

5067- Lycaste laevigata - flowers & rott. f. ①

Rio Tepeinchejí - Honduras - Fls. 8/18/17

Aromatica lined.

5068- Lycaste ~~spathiphyllum~~ - flowers white
throughout - (See Pickle) ①

Verg. Estrella valley - Costa Rica
Fls. 8/18/17 9/3/17

5069- Oncidium Kramerianum Schlechter ①

Rio Mita about 2 hours west of El Valle
de Anton - 1500 ft. Fls. 8/18/17 9/3/17

5070- Stanhopea microsiphon ex lindl. (See
Pickle - Fls. 9/10 & Pickle) ②

Cerro Campana - Rocky outcrops - 2500 ft. Fls.
8/28/17

5071- Peristaxis elata Hook - ①

El Valle - South & East Hill - 2000 ft.

Fl. nomina 8/2/47 -

5072. *Pteristeria* (?) Hook. Sp. P. white,
columns white, wings in column white,
spots purple, lip white, yellow purple.
Fruit white. ①

Rio Llano, Honduras, very. Poas Belicea

Fl. nomina 8/23/47

5073. *Lepiota* sp. - C. of HK - Common - ②

Cerro Chipana - 1000 m. Fl. nomina 8/23/47

Collected by Dorothy Atkin

5074. *Sclerophyllus* sp. fl. white - ①

Hills south of Mission, Nicaragua - 1000 ft.

Fl. nomina 8/28/47

5075. *Oreobolus*. Sp. fl. yellow - faintly streaked brown -
with yellow tips. Mantle & large base
of cap clear yellow - canard yellow below
chart brown - Chestnut, white, spots brown
unders cap yellow - (see pic) ②

Rio Chicoes - very. Same place - 800 ft. Ph.
Atmboas 8/24/47 - collected by Dorothy Allen

5076 - *Epiphorbia* - FG. Atmboas - (2)

Cerro Campana - 2000 ft. Ph. Atmboas - 8/26/47
Collected by Dorothy Allen -

5077 - *Thlaspias* - Ssp. pale green - lvs white, with
dark reddish brown spot. veins w/ yellow
white, with central red blotch. Author of JWE
white, w/ red - (1)

Cerro Campana - Rock tree - 2500 ft. Ph.
Atmboas 8/18/47 -

5078 - *Thlaspias planicola*
Ornamental - lvs white, lined by pale
yellow - (See JWE & Mami) (2)

Rio Lliso, Honduras - very. Pista blanca - Ph.
Atmboas 8/29/47

5079 - *Thlaspias* - (1)

El valle Chipiro - 1800 ft. Ph. Atmboas 7/31/47

5080 - *Cycnoches* diff. - (1)

VCY, Finca LaRosa - El Valle - 5000 ft.
Fl. in the collection of Mr. R. K. Morris
7/9/47 See also # 4783

5081- *maxima* - Fls. orange - ①

El Valle de Anton - 1800 ft. Fls. in the
collection of Mr. Harry Dow 7/30/47

5082- *Epionerium diffforme* Jep. (See pickle) ①

VCY, Finca LaRosa - 5000 ft. Fls. in
the collection of Mr. R. K. Morris - 7/31/47

5083- *Epionerium diffforme* Jep. (See pickle) ①

5084- *Epionerium diffforme* Jep. (See pickle) ①

El Valle de Anton - 1800 ft. Fls. yellow
8/2/47

5085- *Epionerium diffforme* Jep. (See pickle) ①

VCY, Below - 10 ft. Fls. yellow 7/2/47

Collected by Dorothy O. Baker

5086- *Bazzania mollis* Lindb. ①

Cerro Colorado - 2000 ft. Pd. Mts. 7/12/47

Collecting by deposit of O. Atahualpa (see picture & photo)

5087. *Canarina canariensis* - fls. white - lf. pale yellow - ①

Rio Chico - Vtg. Ybarra - Morazan Province -
25 FT. June 9-11, 1947 -

5088. *Laurus* - TREE - 50 FT. fls. white - ③

5089. *Laurus* - TREE - 50 FT. common - ⑨

5090. *Rocheraea* - Shrub - 7 FT. fls. white - common - ④

5091. *Warczewiczia concolor* - TREE - 20 FT.
Bark red - ⑦

5092. *Chionanthus* - Shrub - 8 FT. fls. white - common - ③

5093. *Cissus* - VINE - fls. tricolor white - common - ③

5094. *Aralia* - Shrub - 8 FT. fls. yellow - ①

5095. *Coccoloba* vine - common - ③

Harvested Rio Chico, Morazan Province -
6/12-13/47 -

Stems 10

5096. Composite - TREE - to 30 FT. flowers yellow
on branch ends - fls. pink - very common
& characteristic in the upper level - ③

Rio Chamas - very. few mts. 80 ft.
June 16, 1942 - Collected by Dorothy Allen

5097- Rubiaceae - Shrub - 12 ft., fls. white - fragrant. (5)

Summit Cerro Santa Rita - Oaxaca Province
1200 - 1500 ft. 9/13/42 - with Dorothy Allen

5098- Composite - VINE - fls. white - Common. (5)

5099- Melastomaceae - Shrub - 6 ft. unspotted in leaves
Blood Root - Common - (See Knobell) (5)

5100- Rubiaceae - woody vine - fls. white -
very common. Fruits red -

(6)

5101- Symplocos - ? Shrub - 5 ft. fls. pink - yellow tinge. (7)

5102- Euphorbiaceae - TREE - 25 ft. fls. cream
yellow - common - (See wood specimen) - (9)

5103- Habenaria - terrestrial. Sepals green - lf's &
petals white. (3)

5104- Santalaceae - Shrub or woody herb - 5 ft. opp's dark green - fls. yellow (6)

5105- Bignoniacae - tree - fls. yellow - Epiphytic? (3)

5106- Melastomaceae - Vine - fls. very pale pink - (9)

5107- Melastomaceae - Shrub - 4 ft. fls. white - (2)

5108- Acalypia - vine - fls. pale yellow - very short
fruits at night & early morning extremely
like *Cathartes nodorum* - (6)

TARRETTIA

5109- *Sobralia* - S. sp. pale orange yellow - lip cream
yellow - dark throat darker yellow - not
frankent - (See Pickle & Moore) ①

5110- *Polymeria* - Epiphytic - red yellow - ①

5111- *Liparisella* - S. sp. pale cream
yellow + lip pale white - Epiphytic - ①

5112- *Dicksonia* - Epiphytic - S. sp. varieg pale blue -
lip deep blue - (See Pickle) ①

5113- *Phragmatae* - red, brown purple - ①

5114- *Scaphyglottis* - FG, pale pink - ①

5115- *Scaphyglottis* - FG, pale brown - ①

TRANS - TERRANAS RIVER - Steep road cuts
near Rio Rotavillo - 500 ft. 9/13/47

5116- *Sobralia* - S. sp. pale cream yellow - lip
pale yellow - dark throat darker yellow,
showing in red clay on flats or low cut.
These cuts were made about 1942-43,
hence the plants must have established
themselves in this unlikely situation within
that short interval. Fls. in dense
whorls down side down, as well as
scattered clusters - (See Pickle) ②

Voxy, FORT McLEWIS - C. 2. On. 9/12/47

5117- Desmodium - Climbing, Spiny Pub.
Frequent - Fls. - STRAW YELLOW - ①

5118- Stachys - TREE - 20-60 ft. FLs. orange.
Sgt. Blood Root - Smaller shrubs & trees. Frequent
on margins of WADGE. Superseded by
ACROSTICHUM FERN. Larger trees frequent
in Knobbed Grove. (See Rockhouse & wood
specimen) ⑫

Voxy, MINOR - C. 2. On. 9/13/47

5119- Laurus - SHRUB OR SMALL TREE - 15 FT.
FLs. purple. FRUIT - INFRUIT - ⑦

FORT SAN LORENZO - 100 FT. - 9/13/47

5120- Moraceae - PAPERBARK - SHRUB OR SMALL
TREE - 10 FT. Below trees indicated by
ANTS - ⑥

5121- Fern - Forming large clumps changing
in the bottoms of lower areas - ⑤

5122- Malvaceae - SHRUB - 5 FT. FLs.
pink - ⑤

el valle Chiquito - 1800 ft. Rio Lindo
9/14/47 -

5123- STANTHES - SEE Drawing Pickle & Pfeiffer - ①

Lindos 2 miles - Vtg. Nuevo Leon - Cen. San Juan Lake.
80 ft. SEPT. 24, 1947 - collected by naturalists -

5124- CHIASSETUM Bicolor - (SEE PICKLE) SEE CHIASSETUM

MANUSCRIPT FOR DESCRIPTION -

①

0.2

Vtg. Lindos - 150 ft. SEPT. 25, 1947

CHIASSETUM MACROPHYLLA GEMM. OCHRAEUM

5125- TREE - 75 FT. - 2 1/2 FT. DIAMETER.

Flowers yellow - tall plant -
(wood maple seen 1923) ⑤

Rio Lindo, Lindos - Vtg. Pista Blanca - 150.
Lindos 6/2/47 -

5126- MORONHYCE sp. 9 ft. tall - 8 ft. dia - brown - leaf
tan, with tan brown stripes, crest and midrib
blotch at base of lf. column greenish yellow -
common on large trees - ⑥

5127 - *Maxillaria* - Sp. yellowish green, lip pink
Makay - very common. ②

1000 ft.
very, densely - carpet Province, flowered 1000
collection Dr. Harry Dow, Sept. 28, 1947

5128 - *Cycnoches revolutum* - flowers pink. ①

Cerro Sierra Rica, 1200 ft., Colchagua Province.
Fl. pink 9/27/47

5129 - *Polypanthes* - fls. white yellow. ①

El Valle de Azcon, Jones del Valle, Ecuador.
Fl. white 9/27/47

5130 - *Epidendrum* - Sp. pale pink, Biocellate red - Brown -
Sp. white, vario purple - (See photo) ①

Rio Lince, Neuquen, Argentina - Fls.
brown 9/28/47

5131 - *Epidendrum* - ①

th valley or arroyo, lower elevation, 3000 ft., Huatulco
Mexico Sept 28, 1947

5132 - Phacelia mollis, fls. dark purple.

(2)

Cerro Santo Rita, color unknown, 1200 m.
Sept. 30, 1947

Cleopatra macrophylla Steyermark

5133 - Tree - 60 ft. fls. yellow frequent (8)

Trans - Isthmus Highway - Hwy. Rio Huatulco, 200 ft.
Sept. 30, 1947

Cleopatra macrophylla Steyermark

5134 - Tree, 45-65 ft. fls. yellow, infrequent (8)

Rio San Lorenzo, Cr., 50 ft. Sept. 30, 1947

5135 - duraerae, tree - 65-70 ft. fls. white, (6)
Frequent -

5136 - scandens subsp - 15 ft. fls. red - lg.
white, mildly frag.

(1)

Thun - Cestrum in flower - very Rio Maricito -
100 ft. 7/30/47

5137 - Brinckia - many blossoms in tops of trees
trees - 150, yellow. (3)

Cerro Santa Ana - Colca Province, P.R. Andes
9/28/47 - collected by Dorothy Eber-

5138 - Pedicularis stans - (see picke) Plate - (D)

Rivion road at 8k mts., 3000 mts. P.R. Andes
9/28/47

5139. dyer's heather - in tops of large trees -
S. pale olive green. Flowers, spotted rose
red - lip white, sides rose red. (D)

Hills west of Potosi City - Cerro Juncos, 2000 ft.,
10/1/47

5140 - TREE - 65-70 ft. fls. yellow - Repens
①

Very Noveadense - Colca Province - 2000 ft., 10/4/47

5141 - Rubicene - Bushy tree - 20-30 ft. fls. pink.

Cerro Chayancas - 2000 ft., fls. pink 5/29/47

5142 - Thespesia Repens (See picture in photo 9)
fls. pink) ①

Upper Rio Jiquiri - near hotspr. ad. 200 ft.
collected by Adelmo Farrelle - 9/28/47

5143 - Maxillaria, fls. white, 1 round base of lf.
yellow - (See picture) ①

Rio Tocuan - about east of Potosi City - 100 ft.
fls. white 9/30/47

5144 - Peperomia glaza - ①

Chilean lilies - 5000 ft. m.m. 10/4/67
5145 - *Paxtonia* sp. - ①

Var. Queretaroensis

Thicks - between Highway 200 ft. E. of Mendoza
10/4/67

5146 - *Liparisoides* - Fls. pale green - ①

Locality unknown - flowered in the collection
of Mr. R. Babbitt - Laramie Lake - 10/4/67

Picridate flowers

5147 - *Oxyrochis* - *Oxyronotum* (?) A. S. G. taken -
Lip white on frontal surface, wings green top.
Ostioles narrowly mouthed, basal yellow -
Oblong leaves. Lip larger and broader than others.
Flower over 1 ft. 9.5 cm. long & 2 cm. wide -
(See pic.) ①

Hills south of El Valle - 2000 ft. Fls. in the
collection of Mr. Walker 10/1/67

5148 - *Fritillaria* - reported as flowered in wild -
(Liparis) ②

Very. number 6-2-10047. 10/2/47

5149- *Cataglyphis bicolor*. ①

Carlo Campacci - 300 m. E. Rio Grande. 10/2/47

5150- *Bracon albuni* - (See Jilg & Flotz) - Description
in manuscript from which follows

Very. Velenawa - Rio Chico - 1 to. 1000 ft. 10/2/47
collected by Dorothy Adcock

5151- *Encyrtus possidens* - (pickle only) See pure -
Description in manuscript sent Frank Weller, June. ①

Rio Llano, Neuquén - very. Pampa blanca. 1 to. 1000
ft. 9/47

5152- *Cyprophorus sp.* 1 to. 1000 ft. (pickle only) ①

Very. Guadalupe - Chiriquí Province - 500 ft. 1 to.
1000 ft. 10/2/47

5153- *Cyaneodes variegata* (pickle only.) ^{Strawberry} flower. ①

Verde Concepcion - Chiquihuite Mts & Rio Verde
Fl. Mexico, 7/18/47.

5154 - CYCNOCHLEA VERNICOSA - Standard flower.
(See Plate) — — — — D

Cerro de Sierra Verde Pachuca - On the
bamboo Feb. 20, 1947.

5155 - Oncidium erythronium - (pickle only) D

Rio Pequeno - upper most lake between 2000 ft.
Fl. Mexico 7/15/47.

5156 - Oncidium pusillum - (pickle only) D

Oropez Mts - 3500 ft. Feb. 10, 1947.
on wet rock faces.

5157 - Utricularia - sp. purple - pickle only D

El Valle - Rio - 800 ft. Fl. Mexico 7/10/47
Collection by worthy other.

5158 - ONcidium CRISTA - GALLI - (pickle only) SEE Plate
a Flora - Description in manuscript back shows
three flowers - D

Rio Tzunum - Llanos - East of Puerto Alegre - 100 m.
Fl. season 7/20/47

ENSATINAE

5159- *Oreocnideon ciliolatum* - (Pickle only) Vascular m.
Mesa, Rio Tzunum - ①

Cerro Campana - 2000 m. Fl. season 7/6/47
Collection by R. Gandy et al.

5160- *Cameraria latifolia* - (Pickle only) ①
5161- *Thlaspiatum* - (Pickle only) ①

El Valle Chiquito - 2000 m. Fl. season 7/6/47

5162- *Oxybaphus bartramii*? - Small shr.
(Pickle only) ①

Brown Lake - 85 ft. Fl. in the forest on the
N.E. slopes 10/4/47

5163- *Thlaspiatum moniliferum* - (Pickle only) ^{SEE} ~~plur~~ ①
5164- *Oxalis villostipula* (Pickle only)
(Pickle only) ①

Villa Concepcion, Chiriquí Province - 2000 ft.
No. 1165 7/29/47

5165- *Crinum latifolium* S. Mey. GREEN on
reverse surfaces, densely spotted with brown
on forward surfaces. Petals densely spotted
brown on reverse surfaces & irregularly
& heavily blotched brown on forward
surfaces. Petals $\frac{1}{3}$ or $\frac{1}{2}$ green or yellowish or
green, shading to colorless purple, with
pink, yellowish green markings.
Anthers cap greenish yellow - wrinkled
not concolorous - (pickle ocher) ①

El Valle - 2000 ft. No. 1166 7/29/47

5166- *Cyperus alternifolius* (Savigny) Pickle only -
S. 14 ft. Greenish white, with sparse spotting of
red-brown - ligule white, with two dark
thorn-like processes pale green. Column reddish brown -
anthers cap yellow - ①

VICU. PAMPA, 3000 m. 10/16/47
5167- *Clerodendron ligustrinum* (Pickle only)
SEE plate - ①

Very. LA CHACRA - SANTA FE. 3000 m. 3/20/47

5168- *Oncidium amphioxum* - (Pickle only) Sp. P. yellow
Flowers Brown-Brown - Flared & curved. Laces on
Up. Breast yellow on both sides. Chest
Blotches orange - ②

CARRO CHACRA - 2500 ft. 5th stories 8/18/47

5169- *Pescatoria ciliata* - (Pickle only) ①

Very. RANCIO - CHACRA MUNICIPAL - 1000 ft.
Fl. BAMBOO 7/12/47

5170- *Epidendrum oerstedii* (Engelm.) P. - (Pickle only) ①

CARRO TURE, very. SANTA FE, VERACRUZ PROVINCE
Fl. BAMBOO 8/30/47

5171- *Pescatoria ciliata* - (Pickle only) ①

very. Rio TATANAPA - CHIRQUI Province ep. 50 M.

Fls. in the collection of ERNST FRIEDRICH.

9/28/47

5172. *Oxalis revoluta* (This is a very
small flowered form, which should probably
be given a name) Pickle only -
(Flowers are from two plants) ①

Cerro Santa Rita, Oaxaca Province. (200 m)
10/15/47 - with ERNST FRIEDRICH.

5173 - *Bernardia* - Lx. Shrub - fl. ex.
Fls. yellow - in hairy forest with
tree ferns. ⑨

Locality unknown - possibly NORTH of El Valle
Flowers in the collection of ERNST FRIEDRICH
10/23/47

MARADIA?

5174 - NOTA - (Pickle only) ⑩

2000 FT

Cerro Verde, very close to Averasada Province
Placed in the collection of Graham Fairchild
9/8/47

5175 - *Synaptodon guibei* - (pickle only) ①

El Valle - 2000 ft. 1/2 m. W. the village of
Graham Fairchild 9/12/47

5176 - *Synaptodon* - (pickle only) ①

5177 - *Epidendrum difforme* (pickle only) ①

5178 - *Cataserium viridiflavum* (pickle only) ①

5179 - *Brassia* (sp.) NOTE attached to
Brazil cattleya. (pickle only) ①

5180 - *Miomorpha* (pickle only) ①

Cerro Santa Rita, Ceboruco Province, 1200 ft.
Pl. in Atamas 10/25/47 with Graham Fairchild's

5181 - *Cataserium bicolor* - ♂, sp. pale yellow pink.
lip white, Spots & markings few brown -
(See pickle) (SEE photo) ①

El Valle, floor, 1600 M., Fl. Dianbos
10/25/47

5182 - Morewoods - S. & P. MN, Adenio Recept
Brown with parallel lines of brown
spots. lip yellowish brown, with a
Received Brown tip, Adenio Brown.
Column pale greenish yellow.
(See picke) ①

Cerro Chirripo - 3000 M., Cloud Forest
Fl. Dianbos 10/25/47

5183 - Maxillaria (americana) S. & P. Bright
yellow - lip Bright yellow, marked
Scarlet under the pale yellow
Column - (SEE picke) ①

5184 - Coeliosis Hyacinthina - see caption
Flowers in manuscript taken from
this plant - (SEE picke) ①

Cerro Sierra Alta, Chaco Province - 1400 m.
M. MAMBA 10/18/47

5185 - pleurothallis - ~~dark~~ Sepals maroon, white
at tip. Somewhat serrate base. Inner lips
of sepals maroon, petals maroon, with pinkish
markings, white at the base, lip maroon,
with white tip. (pickle only) ①

5186 - DICKIA - S. & f. pale tan & lip purple -
(see pickle) ①

5187. Epipactis fraxini (see pickle) ②

5188 - CRAND. - (scaphyostachys?) fls. smoky lavender -
common - (pickle, only) ①

Rio Llano, Honduras, very. Pista Blanca - 56.
MAMBA 6/18/47

5189 - Pickle only ①

El Valle - 1800 ft. Fls. Tambo 8/24/47
Collected by Harry Allen
5190 - *Trichocentrum* (Prickle orchy) ①

Cerro Santa Rita, Colca Province
1200 ft. Fls. Tambo 10/22/47.

5191 - *Maxillaria* - fls. white - probably same as
that collected by Fairchild on another
laka - ①

Vari, Prokaso - Chiqui Province -
1000 ft. Fls. coll. Harry Dunn 10/26/47

5192 - *Oncidium Verricosum* ①

Cerro Santa Rita, 1200 ft. Fls. coll.
BRITTON FARWELL 10/26/47

5193 - *Dichaea* - Di 4 pr pale cream-lip pale
green - heavily marked purple - ①

CARRO SANTA RIVA - 1200 FT. 10/15/47

5194 - *TRIDONIDIUM* - ⑤

5195 - SCAPHYTHORAX - fls. pale lavender - ①

5196 - *PIM. NOCTURNUS* - foliage coppery
red - ①

5197 - *HAXISIA* - s.p. & lip scarlet - lip with
basal flecked yellow callus - ①

5198 - epiphytic Orellia

FRAGMENARY flower - produced from basal leaf axil

El valle - Loma del TIRE - 3000 ft.
Fls. stand 10/15/47

5199 - *PLEUROTALLIS COCCORHOEPP.*? - ①

CARRO YURE, REGION WEST OF SANTA FE, various
provinces, 3000 FT. Fls. stand 10/18/47

5200 - *STRANGULATA* JULLS, fls. only in flower ①

5201 - *ONCIDIUM STOBLIFERUM* - sterile - ①

~~TUESDAY 10th of JULY 1888~~

~~SEE ~~OK.~~ H. H. HOTZ 7th of July~~

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C. X. A. C.

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Jach

